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Introduction

SMCBR24Q is a 4-port QoS router which can be easily used at home and in a SOHO environment. It contains two WAN ports and four Ethernet 10/100 LAN ports. The SMCBR24Q combines flexible and easy-to-use QoS, parental control, firewall, and NAT with Fast Ethernet connections.

The flexible and easy-use QoS is a very practical function for bandwidth management. It supports traffic prioritization, guaranteed bandwidth, and limited bandwidth. By using these useful functions, every user behind SMCBR24Q can have his/her own bandwidth to access internet without having to worry about traffic congestion caused by randomly shared bandwidth. SMCBR24Q's QoS function is ideal for bandwidth sensitive applications such as VoIP and media streams since it can guarantee those specific applications or users the minimum essential bandwidth rates.

For home, SMCBR24Q's easy-to-use parental control utilities (access rules, bandwidth management, and content filtering), can help parents easily setup the access rules for their children to limit internet access time and protect children from accessing unwanted websites.

For SOHO, SMCBR24Q will allow two separate broadband connections of many types, including Cable and DSL for failover and load balancing/ connection backup with the unique two WAN ports.

SMCBR24Q also features built-in firewall to block various kinds of malicious attacks and curious intruders. The product uses stateful packet inspection (SPI) to inspect all data packets based on the established security policies. It also provides automatic protection from Denial of service (DoS) attacks such as SYN flooding, IP Spoofing, LAND, ping of death and all reassembly attacks. NAT functionality with firewall conceals network address avoiding the disclosure as public information and also provides a solution for IP address depletion problem. The product also has reverse NAT capabilities that enable users to host various internet services in the private IP address space such as web servers or e-mail servers.

SMCBR24Q also features easy to use WEB UI configuration for end users with different operation systems and with Setup Wizard support, end users can configure the router easily right out of the box.

Main features:

Flexible and easy-to-use QoS

- Guaranteed bandwidth (Min. bandwidth rate)
- Limited bandwidth (Max. bandwidth rate)
- Supports traffic prioritization

- Flexible and easy-to-use Parental Control

- Access rules
- Bandwidth Management
- Content Filtering

- Firewall Security

- Denial of Service (DoS) prevention
- Stateful Packet Inspection (SPI)
- IP filtering: allows you to configure IP address filters
- Port filtering: allows you to configure TCP/UDP port filters

- Networking

- Smart Link Backup
- Load Balance
- DHCP Client/Server
- PPPoE
- NAT with popular ALG support
- NAT with port forwarding
- NAT with port triggers
- DNS Relay
- ARP
- ICMP
- FTP/TFTP
- Password protected configuration or management sessions for web access

- Network Management

- Comprehensive web based management and policy settings
- Built-in Setup Wizard simplifies installation
- Monitoring, Logging, and Alarms of system activities
- Locate and configure all devices with the same subnet
- Parental control Utility for home user

1. How to Install SMCBR24Q

Hardware Features

Feature List

• WAN:	2 RJ-45 10/100Base-T Ethernet Ports
• LAN:	4 RJ-45 10/100Base-T Ethernet ports
• CPU:	Intel IXP425-266MHz
SDRAM:	16 Mbytes SDRAM
Flash ROM:	8 Mbytes Flash
Sys. Power:	3.3V@2.5A
EMI/EMC:	FCC Class B, CE Class B
 Operation Requirement 	Operating Temp. 0°C to 40°C (32°F to 104°F) Storage Temp. 0°C to 70°C (32°F to 158°F) Operating Humidity 10% to 85% Non-Condensing Storage Humidity 5% to 90% Non-Condensing
Dimensions	16.38 x 16.21 x 6.99 cm/ 6.4 x 6.3 x 2.7 in

LED Status

LED	Color	Description
System	Green	Green On: Power On
DIAC	Orango	Orange On: System not ready
DIAG	Orange	Orange Off: System ready
Q-button	Green	Green On: Button On
1.2 WAN Dorto	Croon	Green On: Ethernet Link
1~2 WAIN POILS	Green	Green Blinking: Activity
1.4 LAN Dorto	Crean	Green On: Ethernet Link
1~4 LAN POILS	Green	Green Blinking: Activity

Reset Button

Action	Description
Buch button for 4 cocondo	Warm Reset
Push bullon for 4 seconds	Diag LED : Red Blinking slowly
Push button for 10 seconds	Factory Default
	Diag LED : Red Blinking fast

Q-Button

Action	Description
Push the button on	Green LED and Q-button On
Push the button off	Green LED and Q-button Off

2. How to Manage SMCBR24Q – Home Mode

Login

Connect to 192.1	68.2.1
	G
SMCBR24Q	
User name:	🔮 smcadmin 💽
Password:	•••••
	Remember my password
	OK Cancel

In the web browser, enter the IP address "192.168.2.1" as SMCBR24Q's URL. Enter User Name and Password then OK. The default User Name and Password are 'smcadmin' when you first power up the Router.

Mode



You can choose between Home Mode and SOHO Mode. The default is Home Mode. It is suggested for home users to use Home mode to apply individual and basic settings for family members. SOHO mode provides more advanced functions, and SOHO mode is suggested for SOHO users. If you need to change modes, please save your settings before changing modes.

Note: The Utility will only work with Home Mode.

Site Map

You can click the site map button to view the site map. Click on desired tab subject and it will hyperlink to the page you have chosen.



System Summary

The System summary screen displays the router's current status, settings, and all PCs that are connected to the SMCBR24Q.

System Information

System Information						
System up time :	0 Days 0 Hours 10 Minutes 58 Seconds (Now: Tue Mar 29 2005 03:05:02	2)				
WAN1 IP :	192.168.5.179	Release Renew				
<u>WAN2 IP :</u>	0.0.0.0	Release Renew				

System up time: The length of time in Days, Hours, and Minutes that the SMCBR24Q has been active. WAN1/2 IP: Shows the current WAN1/2 IP Address of the Router, as seen by external users on the Internet and hyperlinks to WAN Connection type in Basic Setup page. When users select obtain an IP automatically, it will show two buttons, release and renew. Users can click the release button to release the current IP address and click renew button to update the DHCP Lease Time or to get a new IP address.

User Usage

	User	Usage				
	WAN1 WAN2 User Name Internet Usage User Name Internet Usage BensonPeng 100% Internet Usage Internet Usage					
User Name						
BensonPeng						
new-host	0%					

This page will display the real time percentages of bandwidth usage for individual users and it is based on the max downstream rate provided by ISP. If dual WANs are used, you can see on this page who is using WAN 1 and who is using WAN 2. Parents have the option to use bandwidth control for the specific family member by the user's usage information.

User Bandwidth

User Bandwidth								
User Name	IP	Interface	Min.Rate (Kbit/Sec)	Max.Rate (Kbit/Sec)	Delete			
BensonPeng	192.168.2.100	WAN1 🔽	0	512	Ū			
new-host	192.168.2.101	WAN1 💌	0	512	Ū			

All PCs connected to SMCBR24Q will be recorded and displayed here.

User Name: SMCBR24Q will display PC's host name automatically, and will also have the option to rename it. **IP:** IP address issued to the PC by SMCBR24Q DHCP Server. **Interface:** The default is WAN 1. If dual WANs are used, you can assign WAN 1 or WAN 2 to the users from the Interface drop-down menu for bandwidth management.

Min. Rate (Kbit/Sec): You can set up Min. Rate to guarantee bandwidth for individual user. The default is zero. Total Min. Rate you allocate for all users will not exceed the max upstream rate provided by ISP.

Max. Rate (Kbit/Sec): You can set up Max. Rate to limit bandwidth for individual user. The default is the max upstream rate provided by ISP. If you set up the max rate as 0 Kbit/Sec for the specific user, that user will not be able to access the internet.

Delete: You can click the trash can icon to delete the users whose bandwidth you don't need to manage anymore.

Note 1: Any deleted on-line client can be recovered by an **ipconfig /release** & **ipconfig /renew**. To make this happen, at the command prompt of a client computer, type **ipconfig /release**. After the computer finishes performing the command, type **ipconfig /release**, then type **ipconfig /renew**.

Note 2: Any configurations here except the default will make the Q-button a hot key. For more details, please refer to **Q-button–Home Mode**.

ISP Bandwidth

ISP Bandwidth						
The Max. Bandwidth provided by ISP	WAN1	Upstream 512	Kbit/Sec	Downstream	512	Kbit/Sec
	WAN2	Upstream 512	Kbit/Sec	Downstream	512	Kbit/Sec
	Help	Save Setting Ca	ncel			

Enter the max upstream and downstream rates provided by ISP. The default rate is 512 Kbit/Sec.

Note: Any configurations here except the default will make the Q-button a hot key. For more details, please refer to **Q-button–Home Mode**.

For more information, click the **Help** button. Click the **Save Settings** button to save System Summary settings or click the **Cancel** button to undo changes.

Basic Setup

The Setup screen contains all of the router's basic setup functions. For most users, the default values for the device should be satisfactory. The device can be used in most network settings without changing any of the values. Some users will need to enter additional information in order to connect to the Internet through an ISP (Internet Service Provider) or broadband (DSL, cable modem) carrier.

				Q-Button OFF
N etworks	Basic Setup => Network	SMCBR24Q	🔳 Sitemap 🔳 L	Logout
HOME Mode		Wizard		
System Summary	Host Name:	SMCBR240	- 1 h	
Basic Setup	Tost Hund.		ea by some isrsj	
> <u>Network</u>	Domain Name:	(Require	ed by some ISPs)	
> Password				
> Time				
> MAC Clone		LAN Setting		
Internet Passport		EAR Searing		
Advanced Setup	(MA)	C Address: 24-3e-f8-60-91-79)		
lon	Device IP Address	Subr	net Mask	
LUY	192 . 168 . 2	. 1 255 . 255	. 255 . 0	

Network

Network

Host Name & **Domain Name**: Enter a host and domain name for the Router. Some ISPs (Internet Service Providers) may require these names as identification and these settings can be obtained from your ISP. In most cases, leaving these fields blank will work.

Host Name:	(Required by some ISPs)
Domain Name:	(Required by some ISPs)

LAN Setting

This is the Router's LAN IP Address and Subnet Mask. The default value is 192.168.1.1 for IP address and 255.255.255.0 for the Subnet Mask.

~



WAN Connection Type:

WAN Connection Type WAIH Obtain an IP automatically Static IP PPPDE PPTP PTP PTP 2: 0.0.0.0
WAII2
Obtain an IP automatically
Use the Following DNS Server Addresses:
DNS Server (Dequired) 1:0
2:0.0.0
Help Save Setting Cancel

Obtain an IP automatically:

If your ISP is running a DHCP server, select **Obtain an IP automatically** option. Your ISP will assign these values automatically. Check the Following DNS Server Addresses. Multiple DNS IP Settings are common. In most cases, the first available DNS entry is used.

	Obtain an IP au	utomatically	*			
Use the Following DNS Server Addresses:						
2)	0		

Static IP:

If you have a specify WAN IP Address, Subnet Mask, Default Gateway Address and DNS Server, select Static IP. You can get this information from your ISP.

	Static IP		*
Specify WAN IP Address:	0.0	0.	. 0
Subnet Mask:	0	0	. 0
Default Gateway Address:	0	. 0	. 0
DNS Server (Required) 1:	0	. 0	. 0
2:	0.0	0.	. 0

PPPoE (Point-to-Point Protocol over Ethernet):

Please check with your ISP to make sure whether PPPoE should be enabled or not.

	PPPoE	*
User Name:		
Password:		
O Connect on I	Demand: Max Idle Ti	me ⁵ Min.
🔘 Keep Alive: I	Redial Period 5	Sec.

If they do use PPPoE,

- 1. Enter your **Username** and **Password**.
- 2. If you select **Connect on Demand** option, the PPPoE connection will be disconnected if it has been idle for a period longer than the **Max Idle Time** setting.
- 3. If you select **Keep Alive** option, the Router will keep the connection alive by sending out a few data packets at **Redial Period**, so your Internet service thinks that the connection is still alive.

PPTP (Point-to-Point Tunneling Protocol):

PPT	P	*			
Specify WAN IP Address:	192 . 168	, 5 , 110			
Subnet Mask:	255 , 255	, 255 , 0			
Default Gateway Address:	192 , 168	. 5 . 1			
User Name:					
Password:					
Or Connect on Demand: Max Idle Time ⁵ Min.					
🔘 Keep Alive: R	edial Period 30	Sec.			

- 1. Enter the Specify WAN IP Address, Subnet Mask, and Default Gateway Address that is the PPTP server's IP that resides in the Modem.
- 2. Enter your **Username** and **Password**.
- 3. If you select **Connect on Demand** option, the connection will be disconnected if it has been idle for a period longer than the **Max. Idle Time** setting.
- 4. If you select **Keep Alive** option, the Router will keep the connection alive by sending out a few data packets at **Redial Period**, so your Internet service thinks that the connection is still alive.

For more information, click the **Help** button. Click the **Save Settings** button to save the Basic Setup settings or click the **Cancel** button to undo the changes.

Password

The SMCBR24Q's default password is 'smcadmin', and it is strongly recommended that you change the Router's password. If you leave the password blank, all users on your network will be able to access the Router simply by entering the unit's IP address into their web browser's location window.

SMC®				0	Q-Button OFF
Networks	Basic Setup => Password	SMCBR24Q	🔳 Sitemap	📕 Logout	
HOME Mode	User Name	smcadmin			
System Summary	Old Password	:			
Basic Setup	New Password	:			
> Network	Confirm New Password	:			
> <u>Password</u>					
> MAC Clone					
Internet Passport					
Advanced Setup					
Log					
	Help Sa	ve Setting Cancel			

Old Password:

Enter the old password. The default Password is 'smcadmin' when you first power up the Router. (Note: The password cannot be recovered if it is lost or forgotten. If the password is lost or forgotten, you will need to reset the Router to its factory default state.)

New Password:

Enter a new password for the Router. Your password must be less than 64 characters long and it can not contain any spaces.

Confirm New Password:

Re-enter the password for confirmation.

For more information, click the **Help** button. Click the **Save Settings** button to save the Password settings or click the **Cancel** button to undo the changes.

Time

SMCBR24Q uses the time settings to time stamp log events, to automatically update the Content Filter List, On-Line Scheduler, and for other internal purposes.

Set the local time using Network Time Protocol (NTP) automatically or manually.

Automatically:

Select the Time Zone and enter the Daylight Saving and NTP Server.

(Note: Default NTP Server is time.nist.gov. If you want to configure as other NTP Server, please fill in NTP Server field.)

SMC®					Q-Button OFF
Networks	Basic Setup =>	Time	SMCBR24Q	🔳 Sitemap	📕 Logout
HOME Mode System Summary Basic Setup	⊙ Set the I ○ Set the I	ocal time using Net local time Manually	work Time Protocol (NT	P) automaticall	y
> Password > Time > MAC Clone Internet Passport Advanced Setup	Time Zone: C Daylight Saving: [Greenwich Mean Time: Lor	Automatic don (GMT+00:00) 💌 Month) 28 (Day) to 10	(Month) 28	(Day)
Log	NTP Server: (Note: Default NTP Serv	ver is time.nist.gov. If you v	vant to configure as other NTP S	Gerver, please fill in t	NTP Server field.)
		Help S	ave Setting Cancel		

Manual:

Enter the Hours, Minutes, Seconds, Month, Day and Year.

SMC [®] Networks	Basic Setup => Time	SMCB	R24Q	🔳 Sitemap	Element Logout	Q-Button OFF
HOME Mode System Summary Basic Setup > Network	 Set the local time using Set the local time Manual 	g Network Time I ually	Protocol (N	FP) automatical	¥	
> Password > <u>Time</u> > MAC Clone Internet Passport Advanced Setup	3 Ha 3 Ma	Manual ours 20 Minu onth 29 Day	tes 7 2005	Seconds Year		
Log						
	Нер	Save Setting	Cancel			

For more information, click the **Help** button. Click the **Save Settings** button to save the Time settings or click the **Cancel** button to undo the changes.

MAC Clone

Some ISPs require you to register a MAC address. This "clones" your network adapter's MAC address onto the Cable/DSL Firewall Router, and prevents you from having to call your ISP to change the registered MAC address to the Cable/DSL Firewall Router's MAC address. The Cable/DSL Firewall Router's MAC address is a 12-digit code assigned to a unique piece of hardware for identification, like a social security number.

				Q-Button OFF
SIVIC		0M000040		
Networks	Basic Setup => MAC Clone	SINGBRZ4U	Sitemap	🗖 Logout
HOME Mode				
Sustam Summany		WAN1		
System Summary	User Defined WAN1 MAC Address:	⊙ 30 . 33 . a4	_ c7 _ 32	_ aa
Basic Setup		(Default: 30-33-a4-c7-32-	-aa)	
> Network	MAC Address from this PC:	○ 00-0e-a6-11-e6-69		
> Time				
> <u>MAC Clone</u>		WAND		
Internet Passport		WANZ		
Advanced Setup	User Defined WAN2 MAC Address:	⊙ 32 _ 0b _ ee	- 88 - f5	- bc
Log		(Default: 32-0b-ee-88-15-)	oc)	
	MAC Address from this PC:	○ 00-0e-a6-11-e6-69		
		ave Setting Cancel		

Input the MAC Address to User Defined WAN MAC Address field or select MAC Address from this PC.

For more information, click the **Help** button. Click the **Save Settings** button to save the MAC Clone settings or click the **Cancel** button to undo the changes.

Remote Internet Passport

On-Line Scheduler

								Q Q-But	on OFF
Networks	Internet Pas => On-Line	sport Scheduler	SN	ICBR2	24Q	🔳 Sitemap	🔳 Lo	gout	
HOME Mode System Summary Basic Setup Internet Passport > On-Line Scheduler		Select Us 00:00 03:00	Whose Series BensonPe	Schedul eng : 192.168: 09:00	er? 2.100 💌 12:00	15:00	18:00	21:00	
 > Website Hit Rate > Application Usage > Performance Optimization > Block List Advanced Setup Log 	Sunday Monday Tuesday Wednesday Thursday Friday Saturday								
	Allow Block	Accessable	Time Tue We Tue We	ting Can	Fri Sat Fri Sat	Restricted I	IME AM Ent AM Ent	ire PM ire PM	

The SMCBR24Q allows or denies Internet access for the selected users in units of hour, day, entire AM, or entire PM.

Select Users: Select the users from the drop-down menu.

On-Line Scheduler screen: Click on any hour to allow or deny Internet access. Green indicates allowed Internet access, and Red indicates blocked Internet access.

Allow: To allow Internet access for an entire day, AM, or PM, click the day of the week, Entire AM, or Entire PM in the *Allow* row.

Block: To block Internet access for an entire day, AM, or PM, click the day of the week, Entire AM, or Entire PM in the *Block* row.

For more information, click the **Help** button. Click the **Save Settings** button to save the On-line Scheduler settings or click the **Cancel** button to undo the changes.

Web Site Hit Rate

CMC8							G	Q-Button OFF
Networks	Interne => We	et Passpo bsite Hit	ort Rate	SMCBR24	Q 🔳 s	itemap	🔳 Logou	
HOME Mode System Summary			Whose To	p 10 Web Site	Hits?			
Basic Setup			Select User: B	ensonPeng : 192.168.2.10	0 💌			
Internet Passport On-Line Scheduler Website Hit Rate Application Usage			Select Date. 2	Refresh Data				
> Performance Optimization		Ranking	Web Site	•	Hits Rate	В	lock	
> Block List		1	tw.i1.yin	ig.com	13			
Advanced Setup		2	<u>tw.a1.yin</u>	ng.com	11			
Log		3	tw.yim	<u>1.com</u>	3			
		4	tw.yaho	o.com	1			
			(Help) S	ave Setting Cancel]			

The **Website Hit Rate** tab shows the top 10 websites by frequency the selected user has visited today, last six days, and their related information, **Ranking**, **Web Site**, and **Hit Rates**. This also allows you to block the selected website.

Select Users: Select the users from the drop-down menu.

Select Date: Select the date from the drop-down menu.

Refresh Data: Click the **Refresh Data** button to update the data.

Ranking: The rankings of the top 10 websites are in a descending order.

Web Site: Click the website address and Internet Explorer will open at that address to find out the site contents.

Hit Rates: This shows how many times the web has been visited.

Block: Check the box to block the site by clicking once. Click again to unblock the site. The default is "unblock".

After saving the settings, the blocked website will be listed in the Website Block list.

For more information, click the **Help** button. Click the **Save Settings** button to save the Website Hit Rate settings or click the **Cancel** button to undo the changes.

Application Usage

SMC®		. –						Q Q-Button OFF
Networks	Interne => App	t Pass licatio	sport on Usage	SMCBR	24Q	🔳 Sitemap	📕 Log	out
HOME Mode								
System Summary			Whose a	oplication	usage?			
Basic Setup			Select User: Ber	isonPeng : 192.16	8.2.100 💌			
Internet Passport			Select Date: 200	5/03/29 🔽				
> On-Line Scheduler			ſ	Refresh Data	h			
> Website Hit Rate			l	Refrestributo				
> Performance Optimization	F	Ranking	Application Name	Protocol	Port No.	Usage(%)	Block	
> Block List		1	Web	тср	80	32		
Advanced Setup	-	2	Netbios	тср	445	15		
Log		3		ТСР	1137	12		
		4		тср	1863	6		
	-	5	Netbios	тср	139	6		
		6		тср	47313	3		
	-	7		UDP	38891	1		
		8		UDP	57250	1		
			() (
			Help	ve Setting C	ancel			

This **Application Usage** tab shows the current usages of applications. The max number of applications is 20. You will be able to determine which application is consuming most bandwidth currently.

Select Users: Select the users from the drop-down menu,

Refresh Data: Click the Refresh Data button to update the data.

Ranking: The rankings of the applications by bandwidth consumption are in a descending order.

Application names: The field shows the application name. The field of any undefined application name is

blank. You can enter the desired name in the blank field.

 $\ensuremath{\mbox{Protocol}}$: This indicates the protocol used by the application.

Port No.: This indicates the port number used by the application.

Usage (%): This shows the value of the current usages of the top 20 applications by percentage of the selected user's usable bandwidth.

Block: Check the box to block the application by clicking once. Click again to unblock the site. The default is "unblock".

After saving the settings, the blocked website will be listed in the Application Block list.

For more information, click the **Help** button. Click the **Save Settings** button to save the Application Usage settings or click the **Cancel** button to undo the changes.

Performance Optimization

SMC®	Internet	Passnort			0	Q-Button OFF
Networks	=> Perfo	rmance Optimization SMC	BR24Q	🔳 Sitemap	🔳 Logout	
HOME Mode						
System Summary		who needs performan	ice optimiz	ation?		
Basic Setup		Select User: BensonPeng : 1	92.168.2.100 💌			
Internet Passport		Add / Edit New A	pplications			
> On-Line Scheduler						
> Website Hit Rate > Application Usage	Enable	Application Name	Performa	nce Optimization		
> <u>Performance Optimization</u>		Web	() No	rmal 💿 Good	Better	
> Block List		Email(SMTP)	() No	rmal 💿 Good	Better	
Advanced Setup		Email(POP3)	() No	rmal 💿 Good	Better	
Log		FTP	() No	rmal 💿 Good	Better	
		Skype	() No	rmal 💿 Good	Better	
		Yahoo Messenger	() No	rmal 💿 Good	Better	
		IPsec VPN	() No	rmal 💿 Good	Better	
		SSH	() No	rmal 💿 Good	Better	
		AIM	() No	rmal 💿 Good	Better	
		IRC	() No	rmal 💿 Good	Better	
		ICQ	() No	rmal 💿 Good	Better	
		Hotline	() No	rmal 💿 Good	Better	
		HTTPs	() No	rmal 💿 Good	Better	
		Telnet	() No	rmal 💿 Good	Better	
		News	⊖ No	rmal 💿 Good	Better	
		DNS	() No	rmal 💿 Good	Better	
		SNMP	() No	rmal 💿 Good	Better	
		Windows Media Player	() No	rmal 💿 Good	Better	
		Netbios	() No	rmal 💿 Good	Better	
		Help Save Setting	Cancel			

The screen displays the 19 default suggested applications where you can optimize their performance and view their **Application Names** and **Performance Optimization**. You can also add or edit new applications whose performance you wish to optimize. Before enabling the bandwidth suggestion, please make sure you have allocated the min. bandwidth rate for this family member.

Select Users. Select the users from the drop-down menu,

Enable: To enable **Performance Optimization** check the box by clicking once and pushing the **Q-button** on (located on the top of the front panel of the router). Click again or push the **Q-button** off to undo your setting. The default is "disable".

Application Names: The field shows the application names.

Performance Optimization: After enabled, select Normal, Good, or Better performance level by clicking the radio button. The default is "Good"

Note: Any configurations here except the default will make the Q-button a hot key. For more details, please refer to **Q-button–Home Mode**.

For more information, click the **Help** button. Click the **Save Settings** button to save the Performance Optimization settings or click the **Cancel** button to undo the changes.

Application Name Protocol TCP Port Range to Recommended bandwidth to a Good degree Kbit/Sec	
Add to list	Delete selected application
Save Setting	Cancel Changes Exit

To create a new application:

Click the Add/Edit New Applications button. Then the Application Management screen will appear.

To add an application, enter the name of the application in the **Application Name** field. Select protocol from the *Protocol* drop-down menu, enter range in the **Port Range** fields and fill out a value in kbps in the **Recommended bandwidth to a good degree** field. Then click the **Add to list** button.

To modify an application, select the application from the list on the right. Change its name, protocol setting, port range, or recommended bandwidth to a good degree. Then click the **Modify** button.

To delete an application, select the application from the list on the right. Then click the **Delete** button.

When you are finished making changes on the *Application Management* screen, click the **Save Setting** button to save changes.

If you want to cancel your changes, click the **Cancel Changes** button. To close the *Application Management* screen and return to the Performance Optimization screen, click the **Exit** button.

Block List Q Q-Button OFF **Internet Passport** SMCBR24Q 🔳 Sitemap Logout => Block List Networks HOME Mode Whose block list? System Summary **Basic Setup** Select User: BensonPeng : 192.168.2.100 💌 Internet Passport Refresh Data > On-Line Scheduler > Website Hit Rate > Application Usage 📀 Web Site Block List O Application Block List > Performance Optimization > <u>Block List</u> Web Site **Un-Block Advanced Setup** Log Help Save Setting Cancel

The Block List screen shows two lists, Web Site Block List and Application Block List.

You can view all blocked websites and applications on this screen and can also unblock these blocked websites and applications.

Web Site Block List

Select Users: Select the users from the drop-down menu.

Refresh Data: Click the Refresh Data button to update the data.

Web Site: Click the website address and Internet Explorer will open at that address to find out the site contents.

Unblock: You can cancel your settings by clicking the checked box and the website will turn to unblock.

SMC [®]	Internet Passport	S	MCBR240	Sitemap	Description	Q-Button OFF
HOME Mode System Summary Basic Setup Internet Passport > On-Line Scheduler > Website Hit Rate > Application Usage > Performance Optimization		Whose Select User: Benson Re O Web Site Block L	block list? Peng: 192.168.2.100 💌 efresh Data ist O Application	Block List		
> Block List Advanced Setup Log	Ар	plication Name Help Save S	Protocol	Port Ho. Ur	1-Block	

Application Block List

Select Users: Select the users from the drop-down menu,

Refresh Data: Click the Refresh Data button to update the data.

Application Block List: Click the radio button to see blocked applications.

Application Names: The field shows the blocked application names.

Protocol: This indicates protocol used by the application.

Port No.: This indicates port number used by the application.

Unblock: You can cancel your settings by clicking the checked box.

For more information, click the **Help** button. Click the **Save Settings** button to save the Block List settings or click the **Cancel** button to undo the changes.

Advanced Setup

DMZ Host

The DMZ (Demilitarized Zone) Host feature allows one local user to be exposed to the Internet for a special-purpose service such as Internet gaming and video-conferencing.



Enter the DMZ Private IP Address to access DMZ Host settings.

For more information, click the **Help** button. Click the **Save Settings** button to save the DMZ Host settings or click the **Cancel** button to undo the changes.

Forwarding

Port forwarding can be used to set up public services on your network. When users from the Internet make certain requests on your network, the Router can forward those requests to computers equipped to handle the requests. For example, if you set the port number **80 (HTTP)** to be forwarded to IP Address 192.168.1.2, then all HTTP requests from outside users will be forwarded to 192.168.1.2.

You may use this function to establish a Web server or FTP server via an IP Gateway. Be sure that you enter a valid IP Address. (You may need to establish a static IP address in order to properly run an Internet server.) For added security, Internet users will be able to communicate with the server, but they are not actually connected. The packets are simply forwarded through the Router.

SMC [®]	8 da an					0	Q-Button OFF
Networks	Advar => For	rwarding	S	MCBR24Q	🔳 Sitemap	🔳 Logout	
HOME Mode			Port R	ange Forwarding			
System Summary		Service		IP Address	Enable		
Basic Setup		All Traffic [TCP&UDP/1~6553	35] 🗸	192.168.2.			
Internet Passport		Service Ma	nagement		Add to list		
Advanced Setup							
> DMZ Host							
> <u>Forwarding</u> > UPnP							
> DDNS							
> VPN Passthrough							
> Remote Management							
System Management			Delete	selected application)		

Port Range Forwarding:

- 1. Select the Service from the pull-down menu.
- 2. If the Service you need is not listed in menu, please click the Service Management button to add new Service and enter the Protocol and Port Range. Then click the Save Setting button.

Service Name Protocol TCP Port Range to	All Traffic [TCP&UDP/1~65535] DNS [UDP/53~53] FTP [TCP/21~21] HTTP [TCP/80~80] HTTP Secondary [TCP/8080~8080] HTTPS [TCP/443~443] HTTPS Secondary [TCP/8443~8443] TFTP [UDP/69~69] IMAP [TCP/143~143] NNTP [TCP/119~119] POP3 [TCP/110~110] SNMP [UDP/161~161] SMTP [TCP/25~25] TELNET [TCP/23~23] TELNET Secondary [TCP/8023~8023]	
Add to list	Delete selected service	
Save Setting	Cancel Changes Exit	

3. Enter the IP Address of the server that you want the Internet users to access. Then enable the entry.

4. Click the **Add to List button**, and configure as many entries as you would like. You also can delete selected application.

Port Triggering

Port Triggering
Application Hame Trigger Port Range Incoming Port Range to to to
Delete selected application
Help Show Tables Save Setting Cancel

Some Internet applications or games use alternate ports to communicate between server and LAN host. When you want to use those applications, enter the triggering (outgoing) port and alternate incoming port in this table. The Router will forward the incoming packets to the LAN host.

- 1. Enter the range of port numbers, application name, and incoming port range.
- 2. You can click the Add to List button to add Port Triggering or Delete selected application.

For more information, click the **Help** button. Click the **Save Settings** button to save the Forwarding settings or click the **Cancel** button to undo the changes. Click the **Show Tables** to see the details.

UPnP

SMC®	Advanced Setup			Q-Button OFF
Networks	=> UPnP	SMCBR24Q	🔳 Sitemap	📕 Logout
HOME Mode	110-	P Function: Vec No.		
System Summary		0 163 0 140		
Basic Setup	Service	Name or IP Ac	ddress Ei	nable
Internet Passport	DNS [UDP/53->53]	gement	Add to list	
Advanced Setup				
> DMZ Host				
> Forwarding				
> DDNS				
> Advanced Routing				
> VPN Passthrough				
> System Management				
Log		Delete selected application		
	Help	ow Tables Save Setting Canc	el	

UPnP forwarding can be used to set up public services on your network. Windows XP can modify those entries via UPnP when UPnP function is enabled by selecting **Yes**.

1. Users need to click the **Service Management** to enter the Service Name, Protocol, External Port, Internal Port, and then click **Add to list** and then **Save Settings**.

2. Enter the **Host Name or IP Address** of the server that you want the Internet users to access, and then enable the entry by checking the **Enable** box.

3. Click the **Add to List** button, and configure as many entries as you would like to. The max. entry is 30. You can also delete the entry by clicking the **Delete selected application** button.

4. Users can also change the IP address and Disable the entry. Click the selected entry, change IP or

disable the entry by clicking the checked **Enable** box to be blank. Finally, click the **Update this Application** button.

For more information, click the **Help** button. Click the **Save Settings** button to save the UPnP settings or click the **Cancel** button to undo the changes. Click the **Show Tables** to see the details. Click the **Show Tables** to see the details.

DDNS

DDNS(Dynamic DNS) service allows you to assign a fixed domain name to a dynamic WAN IP address. This allows you to host your own Web, FTP or other type of TCP/IP server in your LAN. Before configuring DDNS, you need to visit <u>www.dyndns.org</u> and register a domain name. (The DDNS service is provided by DynDNS.org).

CIVIC ®				Q Q-Button OFF
Networks	Advanced Setup => DDNS	SMCBR24Q	🔳 Sitemap	🖉 Logout
HOME Mode		WAN1		
System Summary	DDNS Service:	DynDNS.org 🔽		
Basic Setup	User name:			
Internet Passport	Password:			
Advanced Setup	Host Name:			
> DMZ Host	Internet IP Address:			
> Forwarding > UPnP	Status:			
> <u>DDNS</u>				
> Advanced Routing				
> Remote Management		WAN2		
> System Management	DDNS Service:	DynDNS.org		
Log				
	User name:			
	Password:			
	Host Name:			
	Internet IP Address:			
	Status:			
		Heip Save Setting Cancel		

DDNS Service The DDNS feature is disabled by default. To enable this feature, just check the box. **Username**, **Password**, and **Host Name:** Enter the Username, Password, and Host Name of the account you set up with DynDNS.org.

Your IP Address: The Router's current Internet IP Address is displayed here. Because it is dynamic, this will change.

For more information, click the **Help** button. Click the **Save Settings** button to save the DDNS settings or click the **Cancel** button to undo the changes.

Advanced Routing

The Router's dynamic routing feature can be used to automatically adjust to physical changes in the network layout. The Router uses the dynamic RIP protocol. It determines the route that the network packets take based on the fewest number of hops between the source and the destination. The RIP protocol regularly broadcasts routing information to other routers on the network.

SMC®				Q Q-Button OF	
Networks	Advanced Setup => Advanced Routing	SMCBR24Q	🔳 Sitemap	🛲 Logout	
HOME Mode		Dynamic Routing			
System Summary					
Basic Setup	working Mode:	 Gateway Router Enabled Disabled 			
Internet Passport	Receive RIP versions:	Both RIP v1 and v2			
Advanced Setup	Transmit RIP versions:	RIPv2 - Broadcast 😽			
> DMZ Host					
> Forwarding					
> DDNS		Static Routing			
> Advanced Routing	Destination IP		,		
> VPN Passthrough > Remote Management	Destination in				
> System Management	Subnet Mas	k:].		
Log	Default Gatewa	<mark>y:</mark>].		
	Hop Cour	nt			
	(Metric, max. is 15) interfac	e: IAN 🗸			
		Add to list			

Working Mode: Select **Gateway** mode if your Router is hosting your network's connection to the Internet. Select **Router** mode if the Router exists on a network with other routers, including a separate network gateway that handles the Internet connection.

Dynamic Routing:

Choose the TX: protocol you want for transmitting data on the network. (RIP1 / RIP2) Choose the RX: protocol you want for receiving data from the network. (RIP1 / RIP2)

Static Routing:

You will need to configure Static Routing if there are multiple routers installed on your network. The static routing function determines the path that data follows over your network before and after it passes through the Router. You can use static routing to allow different IP domain users to access the Internet through this device. **This is an advanced feature. Please proceed with caution**.

This Router is also capable of dynamic routing (see the Dynamic Routing tab). In many cases, it is better to use dynamic routing because the function will allow the Router to automatically adjust to physical changes in the network layout. In order to use static routing, the Router's DHCP settings must be disabled.

To set up static routing, you should add routing entries in the Router's table that tells the device where to send all incoming packets. All of your network routers should direct the default route entry to the SMC Router.

> Forwarding > UPnP > DDNS	Static Routing	
> Advanced Routing > VPN Passthrough > Remote Management > System Management Log	Destination IP: . . . Subnet Mask: Default Gateway: 	
	Hop Count (Metric, max. is 15): interface:	
	Add to list	
	Delete selected IP	
	Help Show Routing Table Save Setting Cancel	

Enter the following data to create a static route entry.

1. **Destination IP**: Enter the network address of the remote LAN segment. For a standard Class C IP domain, the network address is the first three fields of the Destination LAN IP, while the last field

should be zero.

- 2. **Subnet Mask**: Enter the Subnet Mask used on the destination LAN IP domain. For Class C IP domain, the Subnet Mask is 255.255.255.0.
- 3. **Default Gateway IP**: If this Router is used to connect your network to the Internet, then your Gateway IP is the Router's IP Address. If you have another router handling your network's Internet connection, enter the IP Address of that router instead.
- 4. Enter hop count (max. 15)
- 5. Interface: Select LAN, WAN1 or WAN2.

For more information, click the **Help** button. Click the **Save Settings** button to save the Advanced Routing settings or click the **Cancel** button to undo the changes. Click the **Show Routing Tables** to see the current routing table.

VPN Pass Through

SMC®				Q-Button OFF
Networks	Advanced Setup => VPN Passthrough	SMCBR24Q	🔳 Sitemap	🛲 Logout
HOME Mode	IPSec Pass	s Through : • Enable O Di	sable	
System Summary	PPTP Pass	s Through : () Enable () Di	sable	
Basic Setup	L2TP Pass	s Through : 💿 Enable 🔿 Di	sable	
Internet Passport				
Advanced Setup				
> DMZ Host				
> Forwarding				
> Advanced Routing				
> VPN Passthrough				
> Remote Management				
> System Management				
Log				
	Не	lp Save Setting Cancel		

IPSec Pass Through

Internet Protocol Security (IPSec) is a suite of protocols used to implement secure exchange of packets at the IP layer. To allow IPSec tunnels to pass through the Router, IPSec Pass Through is enabled by default.

PPTP Pass Through

Point to Point Tunneling Protocol (PPTP) Pass Through is the method used to enable VPN sessions. PPTP Pass Through is enabled by default.

L2TP Pass Through

Layer 2 Tunneling Protocol (L2TP) Pass Through is the method used to enable VPN sessions. PPTP Pass Through is enabled by default.

For more information, click the **Help** button. Click the **Save Settings** button to save the VPN Passthrough settings or click the **Cancel** button to undo the changes.

SMC®	Q Q-Button OFF
Networks	Advanced Setup => Remote Management SMCBR24Q Sitemap Logout
HOME Mode	Remote Management : O Enable O Disable Port 80
System Summary	
Basic Setup	
Internet Passport	
Advanced Setup	
> DMZ Host	
> Forwarding	
> UPnP	
> DDNS	
> Advanced Routing	
> VPN Passthrough	
> <u>Remote Management</u>	
> System Management	
Log	
	Help Save Setting Cancel

Remote Management
The SMCBR24Q supports remote management. If you want to manage this Router through the WAN connection, you have to 'Enable' this option. User can enter the port number for remote management. The default is disabled.

For more information, click the **Help** button. Click the **Save Settings** button to save the Remote Management settings or click the **Cancel** button to undo the changes.

System Management

SMC®				Q-Button OFF
Networks	Advanced Setup => System Management	SMCBR24Q	🔳 Sitemap	🛲 Logout
HOME Mode		Diagnostics		
System Summary				
Basic Setup	O DNS Nar	ne Lookup 💿 Ping		
Internet Passport				
Advanced Setup	Ping host or IP address	s:	Go	
> DMZ Host				
> Forwarding > UPnP				
> DDNS		Factory Default		
> Advanced Routing			_	
> Remote Management	Return	n to Factory Default Setting		
> <u>System Management</u>				
Log				
		Firmware Upgrade		
		Browse		
	Firm	ware Upgrade Right Now		
	Warning: 1. When choosing previous firmwa	are versions, all settings will resto	ore back to default v	alue.
	2. Upgrading firmware may take a	few minutes, please don't turn of	f the power or press	s the reset button.
	3. Please don't close the Window (or alsoonnedt the link, during the t	apgrade process.	

Diagnostics

SMCBR24Q has several tools built in to help with trouble shooting network problems.

DNS Name Lookup

The Internet has a service called the Domain Name Service (DNS) which allows users to enter an easily remembered host name, such as www.SMCBR24Q.com, instead of numerical TCP/IP addresses to access Internet resources. SMCBR24Q has a DNS lookup tool that will return the numerical TCP/IP address of a host name.

Enter the host name to lookup in the **Look up the name** field and click the **Go** button. SMCBR24Q will then query the DNS server and display the result at the bottom of the screen.

💿 DNS Name	e Lookup	🔘 Ping	
Look up the name:			Go

Note: The IP address of the DNS server must be entered in the **Network Settings** tab in the **General** button for the **Name Lookup** feature to function.

Ping

The **Ping** test bounces a packet off a machine on the Internet back to the sender. This test shows if SMCBR24Q is able to contact the remote host. If users on the LAN are having problems accessing services on the Internet, try pinging the DNS server, or other machine at the ISP's location. If this test is successful, try pinging devices outside the ISP. This will show if the problem lies with the ISP's connection.

🔘 DNS Name Lookup		💿 Ping	
Ping host or IP address:			Go

Enter the IP address of the device being pinged and click the **Go** button. The test will take a few seconds to complete. Once completed, a message showing the results will be displayed at the bottom of the Web browser window.

Note: Ping requires an IP address. SMCBR24Q's **DNS Name Lookup** tool may be used to find the IP address of a host.

Factory Default



The "Factory Default" button can be used to clear all of your configuration information and restore SMCBR24Q to its factory state. Only use this feature if you wish to discard all other configuration preferences.

Firmware Upgrade
Firmware Upgrade
Browse
Firmware Upgrade Right Now
Warning: 1. When choosing previous firmware versions, all settings will restore back to default value.
2. Upgrading firmware may take a few minutes, please don't turn off the power or press the reset button.
3. Please don't close the window or disconnect the link, during the upgrade process.

Users can download the new version of firmware into computer in advance, and then select the file. Finally, click the **Firmware Upgrade Right Now** button.

Import configuration File
Browse
Import
Export configuration File
Export
Help

Import Configuration File:

You will need to specify where your preferences file is located. When you click "Browse", your browser will bring up a dialog which will allow you to select a file which you had previously saved using the "Export Settings" button. After you have selected the file, click the "Import" button. This process may take up to a minute. You will then need to restart your SMCBR24Q in order for the changes to take effect.

Export Configuration File:

When you click the "Export" button, your browser will bring up a dialog asking you where you would like to store your preferences file. This file will be called "SMCBR24Q.exp" by default, but you may rename it if you wish. This process may take up to a minute.

Log

SMC Networks	Log => System Log	SMCBR24Q	🔳 Sitemap	 Q-Button OFF Logout
HOME Mode System Summary Basic Setup Internet Passport	Syslog Server: 0.0.0.0	Syslog Enable Syslog (Na	nme or IP Address)	
Advanced Setup Log	[E-mail Enable E-Mail Alert		
	Mail Server: Send E-mail to Log Queue Length: 50	(Re	ime or IP Address) mail Address) ntries	
	Log lime inresnoia.	E-mail Log Now	nutes	
	Syn Flooding	Log Setting Alert Log IP Spoofing	🗌 Win Nuke	
	 Ping Of Death System Error Messages Configuration Changes 	Onauthorized Login Attemp General Log Deny Policies Authorized Login	t Allow Polici	55
	View System Log Outgoin	g Log Table Incoming Log 1 Save Setting Cancel	Table Clear L	og Now

There are three parts in **Log Setting**.

Syslog

Enable Syslog: If check the box, Syslog will be enabled.

Syslog Server: In addition to the standard event log, the SMCBR24Q can send a detailed log to an external Syslog server. Syslog is an industry-standard protocol used to capture information about network activity. The SMCBR24Q Syslog captures all log activity and includes every connection source and destination IP address, IP service, and number of bytes transferred. Enter the Syslog server name or IP address in the **Syslog Server** field. Restart the SMCBR24Q for the change to take effect.

E-mail

Mail Server: If you wish to have any log or alert information E-mailed to you, then you must enter the name or numerical IP address of your SMTP server. Your Internet Service Provider can provide you with this information.

Send E-mail To: This is the E-mail address to which your log files will be sent. You may leave this field blank if you do not want to receive copies of your log information.

Send E-mail: The menu determines the frequency of log e-mail messages (None, Hour, Daily, When Full), and at the time you set up

When system alert, send log immediately.

E-mail Log Now: Clicking E-mail Log Now immediately sends the log to the address in the **Send E-mail to** Filed.

Log Status

When log overflows: In some cases, your log buffer may fill up. This will only happen if there is a problem sending out the E-mail (for instance, if you have not properly filled in the "Mail Server" and "Send Log To" fields, or if there is a problem with your mail server). The default behavior is to **Overwrite Log** and discard its contents. However, you can select **Stop Log** to shut down and prevent traffic from traveling through the SMCBR24Q if the log is full.

There are four buttons follow the setup section.

View System Log: Once you press this button, the new window will pop up System Log.

System Log Current Time: Tue	e Mar 29 03:58:33 2005	ALL 😽 Refresh Clear Close
Time 🔺	Event-Type	Message
Jan 1 00:00:00 2003	System Log	System is up!
Jan 1 00:00:00 2003	System Log	Firmware: v1.3.0-smc
Jan 1 00:00:00 2003	System Log	System is up!
Jan 1 00:00:00 2003	System Log	Firmware: v1.3.0-smc
Jan 1 00:00:00 2003	System Log	Q Buttom Release!

Outgoing Log Table: Once you press this button, the new window will pop up and show you the outgoing packet information including LAN IP, Destination URL/IP and Service/Port number.

Outgoing Lo	g Tal	ble	Refresh
Time		Event-Type	Message

Incoming Log Table: Once you press this button, the new window will pop up and show you the incoming packet information including Source IP and Destination Port number.

ncoming Log Tal	ble	Refresh Close
Time 🔺	Event-Type	Message
Mar 10 13:52:02 2005	(null)	TCP 220.130.245.242:0->220.130.49.79:0 on ixp1
Mar 13 10:20:04 2005	(null)	TCP 220.130.245.242:0->220.130.49.64:0 on ixp1
Mar 13 12:09:32 2005	(null)	TCP 220.130.245.242:0->220.130.49.79:0 on ixp1
Mar 13 12:49:15 2005	(null)	TCP 220.130.245.242:0->220.130.49.64:0 on ixp1
Mar 15 05:16:07 2005	(null)	TCP 61.108.7.194:0->220.130.49.64:0 on ixp1

Clear Log Now: This button will clear out your log without E-mailing it. Only use this button if you don't mind losing your log information.

SMCBR24Q is able to perform a report includes the Device Name, Status, IP Address, Received Packets, Sent Packets, Total Packets, Received Bytes, Sent Bytes, Total Bytes, Error Packets Received and Dropped Packets Received for LAN, WAN1 and WAN2.

Q-button in the Home Mode

The Q-button is a user friendly design. It provides a basic bandwidth management method with just one push. The end user can enjoy smooth Internet applications without any hassles.

Q-button, Q-button LED and Q-button icon

The Q-button is on the front panel with an LED above the button and an icon in the upper right corner of the UI indicating its current status. The default is 'off'. When the Q-button is off (shown in Fig. 2), the green LED is off and the icon is grayed out. When the Q-button is on (shown in Fig. 2), the green LED is on and the icon turns yellow.



If no bandwidth management configuration by the UI or Utility:

When the button is pushed on without any bandwidth management configurations, the router distributes the available bandwidth provided by the ISP evenly to the min. rate of bandwidth of each PC on the LAN. The max. rate of each PC is 100% of the available bandwidth provided by the ISP.

If any bandwidth management configuration by the UI or Utility:

Any bandwidth management configurations will make the Q-button a hot key. That means any configurations of *User bandwidth* or *ISP bandwidth* in the System Summary page or those in the Performance Optimization page. The end user can set the bandwidth management with the Q-button pushed off in advance. Once the Q-button is on, the pre-settings will be enabled. The end user can also set the bandwidth management with the Q-button pushed on.

Note: bandwidth management settings will only work with the *Q*-button pushed on.

3. How to Manage SMCBR24Q – SOHO Mode



Connect to 192.1	68.2.1
	G
SMCBR24Q	
User name:	🖸 smcadmin 💌
Password:	•••••
	Remember my password
	OK Cancel

Enter User Name and Password then click OK.

The Router's default User Name and Password are 'smcadmin' when you first power up the Router.

Mode



You can choose between Home Mode and SOHO Mode. The default is Home Mode. It is suggested for home users to use Home mode to apply individual and basic settings for family members. SOHO mode provides more advanced functions, and SOHO mode is suggested for SOHO users. If you need to change modes, please save your settings before changing modes.

Note: The Utility does not work with SOHO Mode.

Site Map

You can click the site map button to view site map. Click on desired tab subject and it will hyperlink to the page you have chosen.



System Summary

SMC®			Q Q-Button OFF
Networks	зоно	SMCBR24Q	🔳 Sitemap 📕 Logout
SOHO Mode		HOME SOHO	
System Summary		System Information	
Setup	Serial Number : 0a:bc:03:3f:42:05	Firmware version : 1.3.2-smc (Mar 22 2005 14:45:41)
DHCP	CPU : Intel IXP425-266	DRAM: 16M	Flash: 8M
Security	System up time : 0 Days 1 Hours 6 Minu	utes 24 Seconds (Now: Tue Mar 29 2005 04	4:00:46)

The Summary screen displays the router's current status and settings. This information is read only. If you click the button with underline, it will hyperlink to related setup pages.

System Information

Serial Number:

The serial number of the SMCBR24Q.

System up time:

The length of time in Days, Hours, and Minutes SMCBR24Q has been active.

Firmware version:

The current version number of the firmware installed on this unit.

CPU:

SMCBR24Q processor: Intel IXP420.

DRAM:

DRAM size on the board: 16MB.

Flash:

Flash on the board: 16MB.

Configuration

Configuration

If you need guideline to re-configure the router, you may launch wizard. Wizard

The Configuration shows you how to configure the basic setting of the router step by step. To enable the function, click the **Wizard** button.

	<section-header></section-header>	
LAN IP :	192.168.2.1	
WANT IP;	192.168.5.179	Release Renew
WAN2 IP :	0.0.0.0	Release Renew
Mode :	Gateway	
DNS (VVAN1) : (VVAN2) :	192.168.5.1	
DDNS (WAN1 WAN2) :	Off Off	
DMZ Host :	Disabled	

Network Setting Status

LAN IP: It shows the current IP Address of the Router, as seen by internal users on the Internet, and hyperlinks to LAN Setting in Setup page.

<u>WAN1/2 IP</u>: It shows the current WAN1 IP Address of the Router, as seen by external users on the Internet and hyperlinks to WAN Connection type in Setup page. When users select **Obtain an IP automatically** and it shows two buttons, **release** and **renew**. Users can click the **release** button to release the current IP address and click **renew** button to update the DHCP Lease Time or to get a new IP address. When users select **PPPoE** or **PPTP**, and it shows Connect / Disconnect.

<u>Mode</u>: It shows the Working Mode (Gateway or Router) and hyperlinks to Dynamic Routing in Setup page.

DNS: It shows all DNS Server Addresses and hyperlinks to WAN Connection Type in Setup page.

DDNS: It shows the status (Enable / Disable) and hyperlinks to DDNS in Setup page.

<u>DMZ Host</u>: It shows DMZ Private Address and hyperlinks to DMZ Host in Setup page. The default is disabled.

Firewall Setting Status

Firewall Setting Status

SPI (Stateful Packet Inspection):	Ог
DoS (Denial of Service):	Ог
Block WAN Request :	Ог

<u>SPI (Stateful Packet Inspection)</u>: It shows the status (On/Off) and hyperlinks to the General in Firewall page.

DoS (Deny of Service): It shows the status (On/Off) and hyperlinks to the General in Firewall page.

Block WAN Request: It shows the status (On/ Off) and hyperlinks to the Block WAN Request in Firewall page.

Log Setting Status

Log Setting Status

E-mail cannot be sent because you have not specified an outbound SMTP server address.

Help

It hyperlinks to System Log of Log page of More.

If you have not set up the mail server in Log page, it shows "E-mail cannot be sent because you have not specified an outbound SMTP server address."

If you have set up the mail server but the log has not been come out due to Log Queue Length and Log Time Threshold settings, it shows "E-mail settings have been configured."

If you have set up the mail server and the log has been sent to the mail server, it shows "E-mail settings have been configured and sent out normally."

If you have set up the mail server and log can not be sent to mail sever successfully, it shows "E-mail cannot be sent out, probably use incorrect settings."

Setup

SULC®				0	Q-Button OFF
Networks	Setup => Network	SMCBR24Q	🔳 Sitemap	🔳 Logout	
SOHO Mode		Wizerd			
System Summary	Host Name	SMCBR240			
Setup		(Kequin	ea by some isrs;		
> <u>Network</u>	Domain Nam	e: (Require	ed by some ISPs)	L.	
> Password					
> Time					
> DMZ Host		I AN Sotting			
> Forwarding		LAN Setting			
		AC Address: 24-3e-f8-60-91-79)			
> MAU CIONE	Device IP Addres	s Subr	et Mask		
> DUNS	102 169 2	4 255 255	255		
	132 . 100 . 2		. 235 . 0		

The Setup screen contains all of the router's basic setup functions. For most users, the default values for the device should be satisfactory. The device can be used in most network settings without changing any of the values. Some users will need to enter additional information in order to connect to the Internet through an ISP (Internet Service Provider) or broadband (DSL, cable modem) carrier.

Network

Network

Host Name & **Domain Name**: Enter a host and domain name for the Router. Some ISPs (Internet Service Providers) may require these names as identification, and these settings can be obtained from your ISP. In most cases, leaving these fields blank will work.

Host Name:	SOHO100	(Required by some ISPs)
Domain Name:	SME	(Required by some ISPs)

LAN Setting

This is the Router's LAN IP Address and Subnet Mask. The default value is 192.168.1.1 for IP address and 255.255.255.0 for the Subnet Mask.

(MAC Address: 3c-7d-29-bd-ae-f9)									
Device IP Address			ess	Subnet Mask					
192	. 168	. 1	. 1	255.255.255.0 💉					

WAN Connection Type:

Obtain an IP automatically:

If your ISP is running a DHCP server, select **Obtain an IP automatically** option. Your ISP will assign these values automatically. Check the Following DNS Server Addresses. Multiple DNS IP Settings are common. In most cases, the first available DNS entry is used.



Use the Following DNS Server Addresses:

DNS Server (Required) 1:	0	0	0	0
2:	0	0	0	0

Static IP:

If you have a specify WAN IP Address, Subnet Mask, Default Gateway Address and DNS Server, select Static IP. You can get this information from your ISP.

	Static IP		*	
Specify WAN IP Address:	0	. 0	. 0	. 0
Subnet Mask:	0	. 0	. 0	. 0
Default Gateway Address:	0	. 0	. 0	. 0
DNS Server (Required) 1:	0	. 0	. 0	. 0
2:	0	. 0	. 0	. 0

PPPoE (Point-to-Point Protocol over Ethernet):

You have to check with your ISP to make sure whether PPPoE should be enabled or not. If they do use PPPoE,

	PPPoE		¥		
User Name:					
Password:					
O Connect on [)emand: Max	ldle Time	5		Min.
🔘 Keep Alive: I	Redial Period	5		Sec.	

- 1. Enter your **Username** and **Password**.
- 2. If you select **Connect on Demand** option, the PPPoE connection will be disconnected if it has been idle for a period longer than the **Max Idle Time** setting.
- 3. If you select Keep Alive option, the Router will keep the connection alive by sending out a few data packets at **Redial Period**, so your Internet service thinks that the connection is still alive.

PPTP (Point-to-Point Tunneling Protocol):

PPT	2			*	*			
Specify WAN IP Address:	192		168		5		110	
Subnet Mask:	255		255		255		0	
Default Gateway Address:	192		168		5		1	
User Name:								
Password:								
O Connect on Demand: Max Idle Time ⁵ Min.								
Keep Alive: Redial Period 30 Sec.								

- 2. Enter the Specify WAN IP Address, Subnet Mask and Default Gateway Address that is the PPTP server's IP that resides in the Modem.
- 2. Enter your **Username** and **Password**.
- 3. If you select **Connect on Demand** option, the connection will be disconnected if it has been idle for a period longer than the **Max Idle Time** setting.
- 4. If you select **Keep Alive** option, the Router will keep the connection alive by sending out a few data packets at **Redial Period**, so your Internet service thinks that the connection is still alive.

Password

The Router's default password is 'smcadmin', and it is strongly recommended that you change the Router's password. If you leave the password as blank, all users on your network will be able to access the Router simply by entering the unit's IP address into their web browser's location window.

CIVIC 8				٥	Q-Button OFF
Networks	Setup => Password	SMCBR24Q	🔳 Sitemap	🔳 Logout	
SOHO Mode	User Na	me: smcadmin	I 		
System Summary	Old Passw	ord:			
Setup	New Passw	ord:			
> Network	Confirm New Passw	ord:			
> <u>Password</u>					
> Time					
> DMZ Host					
> Forwarding					
> Advanced Routing					
DHCP					
Security					
System Management					
Log					
	Help	Save Setting Cancel			

Old Password:

Enter the old password. The default Password is 'admin' when you first power up the Router. (Note: The password cannot be recovered if it is lost or forgotten. If the password is lost or forgotten, you will need to reset the Router to its factory default state.)

New Password:

Enter a new password for the Router. Your password must be less than 64 characters long and it can't contain any spaces.

Confirm New Password:

Re-enter the password for confirmation.

Administrator Inactivity Time-out:

This setting allows you to configure the length of inactivity that can elapse before you are automatically logged out of the Web Management Interface. Once logged out, you have to re-login. The default value is 5 minutes.

For more information, click the **Help** button. Click the **Save Settings** button to save the Password settings or click the **Cancel** button to undo the changes.

Time

SMCBR24Q uses the time settings to time stamp log events, to automatically update the Content Filter List, On-Line Scheduler and for other internal purposes.

Set the local time using Network Time Protocol (NTP) automatically or manually.

Automatically:

Select the Time Zone and enter the Daylight Saving and NTP Server.

SMC [®] Networks	Setup => Time	SMCBR24Q	🔳 Sitemap	Q-Button OFF Logout
SOHO Mode System Summary Setup	 Set the lo Set the lo 	ocal time using Network Time Protocol (NTI ocal time Manually	P) automaticall	y
 Network Password Time DMZ Host Forwarding UPnP MAC Clone DDNS Advanced Routing DHCP Security System Management Log 	Time Zone: Gr Daylight Saving: NTP Server: (Note: Default NTP Serve	Automatic reenwich Mean Time: London (GMT+00:00) Enabled from 3 (Month) 28 (Day) to 10 r is time.nist.gov. If you want to configure as other NTP S Help Save Setting Cancel	(Month) 28 Server, please fill in t	(Day) NTP Server field.)

Manual:

Enter the Hours, Minutes, Seconds, Month, Day and Year.

SMC [®] Networks	Setup => Time			SM	ICBR	24Q	🔳 Sitemap	Description Description	Q-Button OFF
SOHO Mode	○ Set the loca	al time usin	ng Ne	twork 1	Fime Pro	tocol (N1	FP) automaticall	У	
System Summary Setup	• Set the loca	al time Man	uall	4					
> Network > Password				Ma	anual				
> DMZ Host		5 Ho	ours	17	Minutes	6	Seconds		
> Forwarding > UPnP		3 M	onth	29	Day	2005	Year		
> DDNS									
DHCP									
Security									
System Management									
Log									
		Help	0	Save Sett	ing Ca	incel			

For more information, click the **Help** button. Click the **Save Settings** button to save the Time settings or click the **Cancel** button to undo the changes.

DMZ Host

The DMZ (Demilitarized Zone) Host feature allows one local user to be exposed to the Internet to use a special-purpose service such as Internet gaming and video-conferencing.

					٥	Q-Button OFF
N etworks	Setup => DMZ Host	SMC	BR24Q	🔳 Sitemap	🔳 Logout	
SOHO Mode	DMZ Priva	te IP Address: 1	192 . 168 . 2 . 0			
System Summary						
Setup						
> Network						
> Password						
> Time						
> DMZ Host						
> Forwarding						
> UPnP						
> MAC Clone						
> DDNS						
> Advanced Routing						
DHCP						
Security						
System Management						
Log						
	ŀ	Help Save Setting	Cancel			

Enter the DMZ Private IP Address to access DMZ Host settings.

For more information, click the **Help** button. Click the **Save Settings** button to save the DMZ Host settings or click the **Cancel** button to undo the changes.

Forwarding

Port forwarding can be used to set up public services on your network. When users from the Internet make certain requests on your network, the Router can forward those requests to computers equipped to handle the requests. For example, if you set the port number **80 (HTTP)** to be forwarded to IP Address 192.168.1.2, then all HTTP requests from outside users will be forwarded to 192.168.1.2.

You may use this function to establish a Web server or FTP server via an IP Gateway. Be sure that you enter a valid IP Address. (You may need to establish a static IP address in order to properly run an Internet server.) For added security, Internet users will be able to communicate with the server, but they will not actually be connected. The packets will simply be forwarded through the Router.

SMC [®]						0	Q-Button OFF
Networks	Setup	=> Forwarding	SM	CBR24Q	🔳 Sitemap	🔳 Logout	
SOHO Mode			Port Range	e Forwarding			
System Summary							
Setup		Service All Traffic [TCP&UDP/1~65535]	✓ 192	IP Address	Enable		
> Network		Service Manager	nent		Add to list		
> Password						_	
> Time							
> DIMZ HOSI > Forwarding							
> UPnP							
> MAC Clone							
> DDNS							
> Advanced Routing							
DHCP							
Security			Delete select	ted application			
System Management							

Port Range Forwarding:

Γ

- 1. Select the Service from the pull-down menu.
- 2. If the Service you need is not listed in menu, please click the Service Management button to add new Service and enter the Protocol and Port Range. Then click the Save Setting button.

Protocol TCP v Port Range	All Traffic [TCP&UDP/1~65535] DNS [UDP/53~53] FTP [TCP/21~21] HTTP [TCP/80~80] HTTP Secondary [TCP/8080~8080] HTTPS [TCP/443~443] HTTPS Secondary [TCP/8443~8443] TFTP [UDP/69~69] IMAP [TCP/143~143] NNTP [TCP/143~143] NNTP [TCP/19~119] POP3 [TCP/10~110] SNMP [UDP/161~161] SMTP [TCP/25~25] TELNET [TCP/23~23] TELNET Secondary [TCP/8023~8023]
Add to list Save Setting	Delete selected service Cancel Changes Exit

3. Enter the IP Address of the server that you want the Internet users to access. Then enable the entry.

4. Click the Add to List button, and configure as many entries as you would like. You also can Delete the selected application.

Port Triggering

Log		Port Triggering	
	Application Hame	Trigger Port Range to Add to list	Incoming Port Range
		Delete selected application	
	Help	Show Tables Save Setting	Cancel

Some Internet applications or games use alternate ports to communicate between server and LAN host. When you want to use those applications, enter the triggering (outgoing) port and alternate incoming port in this table. The Router will forward the incoming packets to the LAN host.

- 1. Enter the range of port numbers and enter the application name, and enter the incoming port range.
- 2. You can click the **Add to List** button to add Port Triggering or **Delete selected application**.

For more information, click the **Help** button. Click the **Save Settings** button to save the Forwarding settings or click the **Cancel** button to undo the changes. Click the **Show Tables** to see the details.

UPhP							
SMC [®] Networks	Setup =	> UPnP	SMC	BR24Q	🔳 Sitemap	💿	Q-Button OFF
SOHO Mode System Summary		UPnP F	unction: 🔿 Y	′es 💿 No			
Setup > Network	٦	Service	v	Name or IP Ad	Add to list	Enable	
> Password > Time > DMZ Host > Forwarding					Add to list		
> UPnP > MAC Clone > DDNS > Advanced Pouting							
DHCP Security			Delete e deste d	Levelle etter			
System Management		L	Delete selected	application			
Log							
		Help	now Tables S	ave Setting	ncel		

UPnP forwarding can be used to set up public services on your network. Windows XP can modify those entries via UPnP when UPnP function is enabled by selecting Yes.

1. **Users have to click the Service Management first** to enter the Service Name, Protocol and External Port and Internal Port, and then Add to list and Save Settings. Otherwise, there will be no entry in Service menu.

2. Enter the Host Name or IP Address of the server that you want the Internet users to access, and then enable the entry.

3. Click the Add to List button, and configure as many entries as you would like to. The max entry is 30. You also can delete the selected application.

4. Users also can change the IP address and Disable the entry. Click the selected entry, change IP or Disable, then click Update this Application button.

For more information, click the **Help** button. Click the **Save Settings** button to save the UPnP settings or click the **Cance**l button to undo the changes. Click the **Show Tables** to see the details.

MAC Clone

Some ISPs require that you register a MAC address. This "clones" your network adapter's MAC address onto the Cable/DSL Firewall Router, and prevents you from having to call your ISP to change the registered MAC address to the Cable/DSL Firewall Router's MAC address. The Cable/DSL Firewall Router's MAC address is a 12-digit code assigned to a unique piece of hardware for identification, like a social security number.

CT				Q Q-Button Of	FF
Networks	Setup => MAC Clone	SMCBR24Q	🔳 Sitemap	🔳 Logout	
SOHO Mode		WAN1			
System Summary Setun	User Defined WAN1 MAC Address:	⊙ 30 . 33 . a4	- c7 - 32	- 88	
> Network > Password	MAC Address from this PC:	(Default: 30-33-a4-c7-32 O 00-0e-a6-11-e6-69	-aa)		
 Time DMZ Host Forwarding 		WAN2			
> UPnP > <u>MAC Clone</u> > DDNS	User Defined WAN2 MAC Address:	32 . 0b . ee (Default: 32-0b-ee-88-f5-b)	- 88 - f5 oc)	- bc	
> Advanced Routing DHCP	MAC Address from this PC:	○ 00-0e-a6-11-e6-69			
Security					
System Management					
Log					
		Save Setting Cancel			

Input the MAC Address to User Defined WAN MAC Address field or select MAC Address from this PC .

For more information, click the **Help** button. Click the **Save Settings** button to save the MAC Clone settings or click the **Cance**l button to undo the changes.

DDNS

DDNS(Dynamic DNS) service allows you to assign a fixed domain name to a dynamic WAN IP address. This allows you to host your own Web, FTP or other type of TCP/IP server in your LAN. Before configuring DDNS, you need to visit <u>www.dyndns.org</u> and register a domain name. (The DDNS service is provided by DynDNS.org).

				Q-Button OFF
Networks	Setup => DDNS	SMCBR24Q	🔳 Sitemap	📕 Logout
SOHO Mode		WAN1	•	
System Summary	DDNS Service:	DynDNS.org		
Setup	User name:			
> Network > Password	Password:			
> Time	Host Name:			
> DMZ Host > Forwarding	Internet IP Address:			
> UPnP > MAC Clone	Status:			
> DDNS				
DHCP		WAN2		
Security	DDNS Service:	DynDNS.org		
System Management	User name:			
Log	Password:			
	Host Name:	·		
	Status:			
		Help Save Setting Cancel		

DDNS Service The DDNS feature is disabled by default. To enable this feature, just check the box. **Username**, **Password**, and **Host Name**: Enter the Username, Password, and Host Name of the account you set up with DynDNS.org.

Your IP Address: The Router's current Internet IP Address is displayed here. Because it is dynamic, this will change.

For more information, click the **Help** button. Click the **Save Settings** button to save the DDNS settings or click the **Cance**l button to undo the changes.

Advanced Routing

The Router's dynamic routing feature can be used to automatically adjust to physical changes in the network's layout. The Router uses the dynamic RIP protocol. It determines the route that the network

packets take based on the fewest number of hops between the source and the destination. The RIP protocol regularly broadcasts routing information to other routers on the network.

SINC [®]					0	Q-Button OFF
Networks	Setup => Advanced Ro	_{uting} SMCBI	R24Q	🔳 Sitemap	🔳 Logout	
SOHO Mode		Dynamic Rout	ing			
System Summary	Working	Mode: 💿 Catemay 🤇	Pouter			
Setup		RIP: O Enabled (Disabled			
> Network	Receive RIP ver	sions: Both RIP v1 and v2	V			
> Password	Transmit RIP ver	sions: RIPv2 - Broadcast	~			
> TIME > DMZ Host						
> Forwarding						
> UPnP		Static Routin	Ig			
> MAC Clone			-			
> Advanced Routing	Desti	nation IP:] []		
DHCP						
Soowity	Sub	net Mask:				
Security	Default	Gateway:].		
System Management	,	lop Count				
Log	(Metric, n	nax. is 15):	3			
		Interface: LAN				

Working Mode: Select **Gateway** mode if your Router is hosting your network's connection to the Internet. Select **Router** mode if the Router exists on a network with other routers, including a separate network gateway that handles the Internet connection.

Dynamic Routing:

Choose the TX: protocol you want for transmitting data on the network. (RIP1 / RIP2) Choose the RX: protocol you want for receiving data from the network. (RIP1 / RIP2)

Static Routing:

You will need to configure Static Routing if there are multiple routers installed on your network. The static routing function determines the path that data follows over your network before and after it passes through the Router. You can use static routing to allow different IP domain users to access the Internet through this device. **This is an advanced feature. Please proceed with caution**.

This Router is also capable of dynamic routing (see the Dynamic Routing tab). In many cases, it is better to use dynamic routing because the function will allow the Router to automatically adjust to physical changes in the network layout. In order to use static routing, the SMCBR24Q's DHCP settings must be disabled.

To set up static routing, you should add routing entries in the Router's table that tells the device where to send all incoming packets. All of your network routers should direct the default route entry to SMC Router.

> UPnP > MAC Clone	Static Routing
> DDNS > <u>Advanced Routing</u> DHCP	Destination IP:
Security	Default Gateway:
System Management Log	Hop Count (Metric, max. is 15): interface:
	Add to list Delete selected IP
	Help Show Routing Table Save Setting Cancel

Enter the following data to create a static route entry:

- Destination IP: Enter the network address of the remote LAN segment. For a standard Class C IP domain, the network address is the first three fields of the Destination LAN IP, while the last field should be zero.
- 2. **Subnet Mask**: Enter the Subnet Mask used on the destination LAN IP domain. For Class C IP domain, the Subnet Mask is 255.255.255.0.
- 3. **Default Gateway IP**: If this Router is used to connect your network to the Internet, then your Gateway IP is the Router's IP Address. If you have another router handling your network's Internet connection, enter the IP Address of that router instead.
- 4. Enter hop count (max. 15)
- 5. Interface: Select LAN or WAN

Click **Add to list** to add route entry or click **Delete Selected IP** to delete the static route entry. For more information, click the **Help** button. Click the **Save Settings** button to save the Advanced Routing settings or click the **Cance**I button to undo the changes or click the **Show Routing Table** button to view the current routing table.

DHCP

Setup

The Router can be used as a DHCP (Dynamic Host Configuration Protocol) server on your network. A DHCP server assigns available IP addresses to each computer on your network automatically. If you choose to enable the DHCP server option, you must configure all of the PCs on your LAN to connect to a DHCP server.

SMC [®]	OFF OFF SMCBR24Q Sitemap Logout
SOHO Mode System Summary	Enable DHCP Server
Setup DHCP > <u>Setup</u> > Status Security System Management	Dynamic IP Client Lease Time 1440 Minutes Dynamic IP Range Range Start : 192.168.2.100 Range End : 192.168.2.149
	Static Entry Static IP Address: MAC Address: Add to list 192.168.2.100 => 00-0e-e6-11-e6-69 192.168.2.101 => 00-0e-7b-c1-cc-2c Delete selected Entry
	DNS DNS Server (Required) 1: 0 . 0 . 0 . 0 2: 0 . 0 . 0 . 0
	WINS Server : 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0

If the Router's DHCP server function is disabled, you have to carefully configure the IP address, Mask, and DNS settings of every computer on your network. Be careful not to assign the same IP Address to different computers.

Make any changes to the available fields as described below.

Enable DHCP Server: Check the box to enable the DHCP Server. If you already have a DHCP server on your network, leave the box blank.

Dynamic IP

Client Lease Time: This is the lease time assigned if the computer (DHCP client) requests one. The range is 5 ~ 43,200 Minutes.

Range Start/End: Enter a starting IP address and ending IP address to make a range to assign dynamic IPs. The default range is 100~149.

Static IP

The administrator can assign the Static IP for the specific client based on this user's MAC address. Enter the **Static IP Address** and **MAC Address**, and then click the **Add to list** button. You can set up to 30 static IP entries.

DNS

You can assign the DNS server(s) to the DHCP clients. This is optional, and the Router will use these for quicker access to functioning DNS service.

WINS Server

Windows Internet Naming Service (WINS) is a service that resolves NetBIOS names to IP addresses. The WINS is assigned if the computer (DHCP client) requests one. If you do not know the WINS, leave it as 0.

For more information, click the **Help** button. Click the **Save Settings** button to save the Setup settings or click the **Cance**l button to undo the changes.

Status									
SMC®		(- 0%	Q-Button OF				
Networks	DHCP => Status		DINIUDNZ4Q	Sitemap Lo	gout				
SOHO Mode			Ch. L.						
System Summary			Status						
Setun		DHCP Server: 192.16	58.2.1						
Setup	D	ynamic IP Used: 0							
DHCP	Static IP Used: 1								
> Setup	DHCP Available: 49								
> <u>Status</u>		Total: 50							
Security									
System Management									
Log			Client lable						
	Client Host Name	IP Address	MAC Address	Leased Time	Delete				
	BensonPeng	192.168.2.100	00:0e:a6:11:e6:69	Tue Mar 29 02:54:03 2005	Ū				
			Help Refresh						

A Status page is available to review **DHCP Server Status**. The **DHCP Server Status** reports the IP of DHCP Server, the number of **Dynamic IP Used**, **DHCP Available**, and **Total**. **Client Table** shows the current DHCP Client information. You will see the related information (Client Host Name, IP Address, MAC Address, and Leased Time) of all network clients using the DHCP server. You can click the **Trash Can** button to delete the line, and the previously issued IP Address of Client Host will be released. Or you can click **Refresh** button to refresh the Client Table.

Security

General

From the Firewall Tab, you can configure the Router to deny or allow specific internal users from accessing the Internet. You can also configure the Router to deny or allow specific Internet users from accessing the internal servers. You can set up different packet filters for different users that are located on internal (LAN) or external (WAN) side based on their IP addresses or their network Port number.

					٥	Q-Button OFF
SMC®						
Networks	Security => General	SMCBR240		v Sitemap	🔳 Logout	
	coounty -> constan					
SOHO Mode						
System Summary						
Setup	Firewall	: 💿 Enable 🤇) Disal	ble		
пнср	SPI (Stateful Packet Inspection)	: 💿 Enable 🤇) Disal	ole		
0	DoS (Denial of Service)	: 💿 Enable 🤇) Disal	ole		
Security	Block WAN Request	: 💿 Enable 🤇) Disal	ole		
> General > Access Bules	Remote Management	: 🔘 Enable 🤇) Disal	ole Port:	80	
> Content Filtering	Multicast Pass Through	: 🔘 Enable 🤇) Disal	ble		
> VPN Passthrough	MTU	: 💽 Auto 🤇) Manu	al 1500	bytes	
System Management						
Log						
	Help	ave Setting Cancel				
		Concer				

Firewall

The default is enabled. If users disable the Firewall function, SPI, DoS, Block WAN Request will be disabled, Remote Management will be enabled and Access Rules and Content Filter will be disabled.

SPI (Stateful Packet Inspection)

The Router's Firewall uses Stateful Packet Inspection to maintain connection information that passes through the firewall. It will inspect all packets based on the established connection, prior to passing the packets for processing through a higher protocol layer.

DoS (Denial of Service)

Protect internal networks from Internet attacks, such as SYN Flooding, Smurf, LAND, Ping of Death, IP Spoofing and reassembly attacks.

Block WAN Request

This feature is designed to prevent attacks through the Internet. When it is enabled, the Router will drop both the unaccepted TCP request and ICMP packets from the WAN side. The hacker will not find the Router by pinging the WAN IP address. If DMZ is enabled, this function will be disabled.

Remote Management

This Router supports remote management. If you want to manage this Router through the WAN connection, you have to 'Enable' this option. User can enter the port number for remote management.

Multicast Pass Through

IP Multicasting occurs when a single data transmission is sent to multiple recipients at the same time. Using this feature, the Router allows IP multicast packets to be forwarded to the appropriate computers.

MTU (Maximum Transmission Unit)

This feature specifies the largest packet size permitted for network transmission. It is recommended that you enable this feature. Default of MTU size is 1500 bytes.

For more information, click the **Help** button. Click the **Save Settings** button to save the General settings or click the **Cance**l button to undo the changes

Access Rules

Network Access Rules evaluate network traffic's Source IP address, Destination IP address, and IP protocol type to decide if the IP traffic will be allowed to pass through the firewall.

The ability to define Network Access Rules is a very powerful tool. Using custom rules, it is possible to disable all firewall protection or block all access to the Internet. Use extreme caution when creating or deleting Network Access Rules.

- SMCBR24Q has the following Default Rules.
- * All traffic from the LAN to the WAN is allowed.
- * All traffic from the WAN to the LAN is denied.

Custom rules can be created to override the above SMCBR24Q default rules, but there are four additional default rules that will always be active, and custom rule can not override these four rules.

- * HTTP service from LAN side to SMCBR24Q is always allowed.
- * DHCP service from LAN side is always allowed.
- * DNS service from LAN side is always allowed.
- * Ping service from LAN side to SMCBR24Q is always allowed.

ADFA [®]									G	Q-Button OFF
Networks	Sec	urity	· => /	Access R	ules	SMC	BR24Q	🔳 Sitemap	🔳 Logou	
SOHO Mode				Ju	np to 1	/1 page	5 💌 er	ntries per page		
System Summary	Priority	Enable	Action	Service	Source	Source	Destination	Time	Day	Delete
Setup			Allow	All Traffic [0]	LAN	Any	Any	Always		
DHCP			Deny	All Traffic [0]	WAN1	Any	Any	Always		
Security			Deny	All Traffic [0]	WAN2	Any	Any	Always		
 > General > Access Rules > Content Filtering > VPN Passthrough System Management Log 					Add New	Rule	Restore to Defaul	t Rules		

Besides the Default Rules, all configured Network Access Rules are listed in the table, and you can choose the **Priority** for each custom rule. Click the Edit button to **Edit the Policy**, and click the Trash Can icon to delete the rule.

Click **Add New Rule** button to add new Access Rules, or click the **Restore to Default Rules button** to restore to the default rules, and all custom rules will be deleted.

Add a new Policy

SMC [®] Networks	Security =>	SMCBR24Q	🔳 Sitemap	Q-Button OFF
SOHO Mode				
System Summary		Services		
Setup				
DHCP	Action :	Allow 💙		
Soowity	Service :	All Traffic [TCP&UDP/1~65535] V Ser	vice Management	J
> General	Log :	Log packets match this rule		
> <u>Access Rules</u>	Source Interface :	LAN		
> Content Filtering	Source IP : Single 💌			
> VPN Passthrough	Destination IP : Single 💌			
System Management				
Log		Scheduling		
	_			
	Apply this rule a	ways 💌 🔛 : 🔄 to 🔄 :	(24-Hour Format)
		Everyday 🔄 Sun 🔄 Mon 🔄 Tue 🔄 Wed	_ Thu _ Fri _ S	Sat
	Hel	Back Save Setting Cancel		

Services

Action

Select the Allow or Deny radio button depending on the intent of the rule.

Service

Select the service from the Service pull-down menu. If the service you need is not listed in the menu, click the **Service Management** button to add new Service. Enter Service Name, Protocol and Prot Range, and click Add to list and Save Setting.

Service Name Protocol TCP Port Range to	All Traffic [TCP&UDP/1~65535] DNS [UDP/53~53] FTP [TCP/21~21] HTTP Secondary [TCP/8080~8080] HTTP Secondary [TCP/8080~8080] HTTPS [TCP/443~443] HTTPS Secondary [TCP/8443~8443] TFTP [UDP/69~69] IMAP [TCP/119~119] POP3 [TCP/119~119] POP3 [TCP/110~110] SNMP [UDP/161~161] SMTP [TCP/25~25] TELNET [TCP/23~23] TELNET Secondary [TCP/8023~8023]	
Add to list	Delete selected service	
Save Setting	Cancel Changes Exit	

Log

User can select Log packet match this rule or Not log.

Source Interface

Select the Source Interface (LAN, WAN1, WAN2, Any) from the pull-down menu. Once DMZ is enabled, the options will be LAN, WAN1, DMZ, Any.

Source IP

Select Any, Single or Range, and enter IP Address for single and range.

Destination IP

Select Any, Single or Range, and enter IP Address for single and range.

Scheduling

Apply this rule (time parameter)

Select the time range and the day of the week for this rule to be enforced. The default condition for any new rule is always enforced.
Q Q-Button OFF

For more information, click the Help button. Click the Save Settings button to save the Access Rules settings or click the Cancel button to undo the changes

Security

Content Filter

SMC®	
Networks	Security => Content Filtering SMCBR24Q Sitemap Logout
SOHO Mode	
System Summary	Forbidden Domains
Setup	
DHCP	Block Forbidden Domains
Security	Forbidden Domains
> General	Add:
> Access Rules > Content Filtering	Add to list
> VPN Passthrough	
System Management	
Log	
	Delete selected domain
	Scheduling
	Apply the rule always 💌 💠 to 🛛 : (24-Hour Format)
	Everyday Sun Mon Tue Wed Thu Fri Sat
	Help Save Setting Cancel

Forbidden Domains

When the Block Forbidden Domains check box is selected, the SMCBR24Q will block web access to sites on the Forbidden Domains list.

Scheduling

The Time of Day feature allows you to define specific times when Content Filtering is enforced. For example, you could configure the SMCBR24Q to filter employee Internet access during normal business hours, but allow unrestricted access at night and on weekends.

Apply this rule:

Apply the rule	from	*	00]:	00	to		:			(24-H	lour f	Form	nat)
[Every	day	📃 Sun		Mon	-	Tue [W	(ed 🗌	Th	u 🗌	Fri		Sat

Always: When selected, Content Filtering is enforced at all times.

From: When selected, Content Filtering is enforced during the time and days specified. Enter the time period, in 24-hour format, and select the day of the week that Content Filtering is enforced.

For more information, click the **Help** button. Click the **Save Settings** button to save the Content Filtering settings or click the **Cance**l button to undo the changes.

VPN Pass Through

SMC®		Q-Button	OFF
Networks	Security => VPN Passthrough SMCBR24Q Sitemap	🔳 Logout	
SOHO Mode	IPSec Pass Through Exable . Disable		
System Summary	PPTP Pass Through : • Enable O Disable		
Setup	L2TP Pass Through : • Enable O Disable		
DHCP			
Security			
> General			
> Access Rules			
> Content Filtering > VPN Passthrough			
System Management			
Log			
	Help Save Setting Cancel		

IPSec Pass Through

Internet Protocol Security (IPSec) is a suite of protocols used to implement secure exchange of packets at the IP layer. IPSec Pass Through is enabled by default.

PPTP Pass Through

Point to Point Tunneling Protocol (PPTP) Pass Through is the method used to enable VPN sessions. PPTP Pass Through is enabled by default.

L2TP Pass Through

Layer 2 Tunneling Protocol (L2TP) Pass Through is the method used to enable VPN sessions. PPTP Pass Through is enabled by default.

For more information, click the **Help** button. Click the **Save Settings** button to save the VPN Passthrough settings or click the **Cance**l button to undo the changes

System Management

Dual WAN

There are two functions provided for users – Smart Link Backup and Load Balance.

SMC [®] Networks	System Management => Dual-WAN	SMCBR24Q	Q-Button OFI							
SOHO Mode System Summary Setup DHCP Security	Smart Link Backup : Primary WAN Load Balance	Smart Link Backup WAN1 (Specify which WAN is prir	nary, the other one will be backup)							
System Management	Network Service Detection Image: Construction of the system log in the sy									
		Default Gatew ISP Host : ISP Host : DNS Lookup H Save Setting Cancel	ay							

Smart Link Backup: Users can choose which WAN port to be primary. Once primary WAN is chosen, other WAN will become backup by default.

Network Service Detection

This tool can detect the network connection status of ISP by pinging Default Gateway, ISP Host, Remote Host or DNS Lookup Host.

Retry count: The count of ping. The default is 5.

Retry timeout: The interval between two ping actions. The default is 30 seconds.

When Fail:

Generate the Error Condition in the System Log: The Router will generate the System Log when ping fails to inform users that the ISP connection is disconnected.

Remove the Connection: This WAN Interface will be suspended when the network connection to ISP is not active. The traffic on this WAN will be dispatched to the other WAN port. Once connection to ISP is re-established, the traffic will be dispatched back.

If you enable NSD, you have to choose at least one option from following four items.

Default Gateway: If you check this item, the Router will ping the default gateway first.

ISP Host: After pinging Default Gateway, the Router will ping ISP Host "Retry timeout" later. The ISP Host is provided by ISP.

Remote Host: Enter the IP address of Remote Host that you're going to ping.

DNS Lookup Host: Enter the Host Name or Domain Name that you're going to ping.

		Q-Button OFF								
Networks	System Management => Dual-WAN	SMCBR24Q Sitemap Logout								
SOHO Mode										
System Summary		Load Balance								
Setup	-									
DHCP	Smart Link Backup : Primary WAN WAN1 💙 (Specify which WAN is primary, the other one will be backup)									
Security	Coad Balance									
System Management										
> <u>Dual-WAN</u>	N	letwork Service Detection								
> QoS > Diagnostics	Enable Network Service Detection									
> Factory Default										
> Firmware Upgrade > Setting Backup	Retry count : 5	Retry timeout : 30 second								
Log	When Fail : Generate the	Error Condition in the System Log 💌								
	WAN1	WAN2								
	✓ Default Gateway	✓ Default Gateway								
	ISP Host :	ISP Host :								
	Remote Host :	Remote Host :								
	DNS Lookup Host :	DNS Lookup Host :								

If **Load Balance (Auto)** is selected, it will be automatically computing the max. bandwidth of WAN1 and WAN2 by using Weighted Round Robin to balance the loading.

Network Service Detection

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Retry timeout: The interval between two ping actions. The default is 30 seconds.

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Remote Host: Enter the IP address of Remote Host that you're going to ping.

DNS Lookup Host: Enter the Host Name or Domain Name that you're going to ping.

Bandwidth The Max. Bandwidth provided by ISP WAN1 Upstream 512 Kbit/Sec Downstream 512 Kbit/Sec WAN2 Upstream 512 Kbit/Sec Downstream 512 Kbit/Sec
Protocol Binding
Source IP: 192 . 168 . 2 . 0 to 0 Destination IP: 0 . 0 . 0 . 0 Interface: WAN1
Add to list
Delete selected application
Help Save Setting Cancel

Bandwidth

Enter the max. upstream and downstream bandwidth provided by ISP.

Protocol Binding

SMCBR24Q supports the Protocol Binding functionality. It allows users to specify the internal IP **or/and** Service going through the specified WAN port.

Service: Users can choose the Service from the drop-down menu, or click the service management to add new Service. The default Service is SMTP.



Source IP: Users can specify the internal IP to go through the specific WAN port. If users need the Service Binding only, entering zero in Source IP filed is suggested.

Destination IP: Users can specify the specific Service from the internal Source IP to Destination IP go through the specific WAN port, and enter the Destination IP. If users need the Service Binding only, entering zero in Destination IP filed is suggested.

If users need IP Binding only, please select 'All' from the Service drop-down menu.

Interface: Choose WAN1 or WAN2.

Enable: Users can check the enable box to enable this Protocol Binding rule.

Click **Add to list** button to add the Protocol Binding rule to list, and users can set up to 30 rules, or click **Delete selected application** button to delete the selected rule.

For more information, click the **Help** button. Click the **Save Settings** button to save the Dual-WAN settings or click the **Cance**l button to undo the changes

QoS

QoS (Quality of Service) refers to the capability of a network to provide better service to selected network traffic. The SMCBR24Q provides two types of functionality, and only one type of functionality can work at one time.

1. **Rate Control** for minimum bandwidth (guarantee bandwidth) and maximum bandwidth (limit bandwidth) by Service and/or IP Address.

2. Priority for services.

Both functionalities can control Inbound or Outbound traffic.

Bandwidth

Bandwidth information you configured in Dual-WAN page will be displayed here for your reference for setting up the Min. Rate, Max. Rate, or priority. The quantity of WAN interface will be displayed according to your configuration in Setup and Dual-WAN page. The bandwidth information may be changed. Click the save setting button when done.

SMC®						0	Q-Button OFF			
Networks	System Manageme => QoS	ement SMCBR24Q		4Q	🔳 Sitemap	🔳 Logout				
SOHO Mode			Bandwidth							
System Summary										
Setup	The Maximum Bandwidth provided by ISP									
DHCP			Upstream	Do	wnstream					
Security		Interface	(Kbit/Sec)	(Kbit/Sec)					
System Management		VVAN1	512	5	12					
> Dual-WAN		WAN2	512	5	12					
> 0.05										

Bandwidth Management Type: The SMCBR24Q provides two type of bandwidth management.

Rate Control

The SMCBR24Q provides Rate Control for guarantying or limiting the specific Service and/or IP address for inbound traffic or outbound traffic at specific minimum rate or maximum rate.

 > Diagnostics > Factory Default > Firmware Upgrade > Setting Backup 	Bandwidth Management Type Type: ③ Rate Control 〇 Priority
	Rate Control
	Interface: WAH1 WAH2 Service: SMTP [TCP/25~25] Service Management IP: 192 . 168 . 2 . 0 to 0 Direction: Upstream Mini. Rate: Kbit/sec Max. Rate: Kbit/sec Enable: Add to list
	Delete selected application
	Help Show Tables Save Setting Cancel

Rate Control

Interface: Check the WAN interface box, and the Rate Control Rule will apply to the selected interface (s). **Service**: Select the Service from the drop-down menu. If the Service you need to control is not in the drop down menu list, please click Service Management to add the Service.

IP: Enter the IP Address or IP range you need to control. The default is zero which includes all internal IP addresses.

Direction: Select **Upstream** for outbound traffic or **Downstream** for inbound traffic from the drop-down menu.

Min._Rate (Kbit/sec): Enter the Mini. Rate for guaranteeing bandwidth.

Max. Rate (Kbit/sec): Enter the Max Rate for limiting bandwidth.

Enable: Check the box and push the Q-button on to enable this Rate Control Rule.

Add to list: After set up the rule, click the Add to list button. The max entry is 30.

For more information, click the **Help** button. Click the *Save Settings* button to save the QoS Rules settings or click the **Cancel** button to undo the changes. Click **Summary button** to view the summary of Rate Control rule.

Summary

Summary					Re	fresh	Close
Interface(WAN)	Service	IP	Direction	Mini. Rate (Kbit/sec)	Max. Rate (Kbit/sec)	Enable	Edit

All Rate Control rules will be displayed in the Summary table. Users can click the Edit button to edit the rule.

Note: Any configurations here except the default will make the Q-button a hot key. For more details, please refer to **Q-button–SOHO Mode**.

Priority

The SMCBR24Q provides three types of priorities for the service. They are High, Middle and Low priorities.

		>			
	Interface	wa	N1 🔲 WAN2		
	Service		Direction	Priority	Enable
5	SMTP [TCP/25~25]	💙 Uş	ostream 🔽	High 🔽	
	Service Management		Adı	to list	
		Delete selected ap	plication		
		Tables		h	
	Help Snow			J	

Interface: Check the Interface box, and the Bandwidth Management Priority rule will apply to the selected interface(s).

Service: Select the service from the drop-down menu. If the Service you need to control is not in the drop down menu list, please click **Service Management** to add the Service.

Direction: Select **Upstream** for outbound traffic or **Downstream** for inbound traffic from the drop-down menu.

Priority: The default priority for the service is middle, so users can select high or low for the specific service.Services in high priority will share 60% of total system bandwidth, and services in low priority will share 10% of total bandwidth.

Enable: Check the box and push the Q-button on to enable this Priority rule.

Add to list: After set up the rule, click the Add to list button. The max entry is 30.

Note: Any configurations here except the default will make the Q-button a hot key. For more details, please refer to **Q-button–SOHO Mode**.

Click the **Save Settings** button to save the QoS Priority settings, click the **Cancel Changes** button to undo the changes, or click **Summary** button to view the summary of Priority rule.



All Priority rule set by the users will be displayed in Summary table by interface. Users can click the Edit button to edit the rule.

Diagnostic

SMCBR24Q has two tools built in to help with trouble shooting network problems.

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SMC [®]	System Management			0	Q-Button OFF
Networks	=> Diagnostics	SMCBR240	🔳 Sitemap	🔳 Logout	
SOHO Mode					
System Summary	⊙ di	IS Name Lookup 🛛 🔿 Ping			
Setup					
DHCP		DNS Name Lookun			
Security		DHS Hame Lookup			
System Management	Look up the n	ame:	Go		
> Dual-WAN					
> <u>Diagnostics</u>					
> Factory Default > Firmware Upgrade					
> Setting Backup					
Log					
	Hel	Save Setting Cancel			

DNS Name Lookup

The Internet has a service called the Domain Name Service (DNS) which allows users to enter an easily remembered host name, such as www.SMCBR24Q.com, instead of numerical TCP/IP addresses to access Internet resources. SMCBR24Q has a DNS lookup tool that will return the numerical TCP/IP address of a host name.

Enter the host name to lookup in the **Look up the name** field and click the **Go** button. Do not add the prefix <u>http://</u>, otherwise the result will be Address Resolving Failed. SMCBR24Q will then query the DNS server and display the result at the bottom of the screen.

Note: The IP address of the DNS server must be entered in the **Network Settings** page for the **Name Lookup** feature to function.

Ping

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SMC®	System Management				0	Q-Button OFF
Networks	=> Diagnostics	SMCB	3R24Q	🔳 Sitemap	🔳 Logout	
SOHO Mode	<u></u>		0			
System Summary	01	DNS Name Lookup	• Ping			
Setup						
DHCP		Ping				
Security		r mg				
System Management	Ping host or IP	address:		Go		
> Dual-WAN						
> <u>Diagnostics</u>						
 > Factory Default > Firmware Upgrade 						
> Setting Backup						
Log						
	Н	elp Save Setting	Cancel			

The **Ping** test bounces a packet off a machine on the Internet back to the sender. This test shows if SMCBR24Q is able to contact the remote host. If users on the LAN are having problems accessing services on the Internet, try pinging the DNS server or other machine at the ISP's location. If this test is successful, try pinging devices outside the ISP. This will show if the problem lies with the ISP's connection.

Enter the IP address of the device being pinged and click the **Go** button. The test will take few seconds to complete. Once completed, a message showing the results will be displayed at the bottom of the Web browser window. The results include Packets transmitted/ received/ loss and Round Trip Time (Minimum, Maximum, and Average).

Note: Ping requires an IP address. SMCBR24Q's **DNS Name Lookup** tool may be used to find the IP address of a host.

Factory Default



The "Factory Default" button can be used to clear all of your configuration information and restore SMCBR24Q to its factory state. Use this feature only if you wish to discard all other configuration preferences.

Firmware Upgrade

				٥	Q-Button OFF
Networks	System Management => Firmware Upgrade	SMCBR24Q	🔳 Sitemap	🔳 Logout	
SOHO Mode		Browse			
System Summary	_				
Setup	F	irmware Upgrade Right Now			
DHCP	Warning: 1. When choosing previous firmware v	versions, all settings will restore back t	o default value.		
Security	2. Upgrading firmware may take a few	ver or press the res	et button.		
System Management	3. Please don't close the window or di	sconnect the link, during the upgrade p	process.		
> Dual-WAN					
> QoS > Diagnostics		Firmware Download			
> <u>Factory Default</u>					
> Firmware Opgrade > Setting Backup	Fin	mware Download from Web Site			
Log					
		Heb			

Firmware Upgrade

Users can use the following download function to download the new version of firmware into computer in advance and select the file to upgrade. Finally, click the **Firmware Upgrade Right Now** button to initiate the firmware upgrade.

Firmware Download

Users can click the **Firmware Download from SMC Web Site** button to link to the download page of Support of SMC website, and select the SMCBR24Q from the pull-down menu.

Setting Backup

SMC [®]	System Management => Setting Backup	SMCBR24Q	🛲 Sitemap	Description (Construction)	Q-Button OFF
SOHO Mode System Summary Setup DHCP Security		Import configuration File Browse.			
System Management Dual-WAN QoS Diagnostics Factory Default Firmware Upgrade Setting Backup Log		Export configuration File Export			
		Help			

Import Configuration File:

You will need to specify where your preferences file is located. When you click "Browse", your browser will bring up a dialog which will allow you to select a file which you had previously saved using the "Export Settings" button. After you have selected the file, click the "Import" button. This process may take up to a minute. You will then need to restart your SMCBR24Q in order for the changes to take effect.

Export Configuration File:

When you click the "Export" button, your browser will bring up a dialog asking you where you would like to store your preferences file. This file will be called "SMCBR24Q.exp" by default, but you may rename it if you wish. This process may take up to a minute.

Log

System Log

CIVIC.8				Q-Button OFF
Networks	Log => System Log	SMCBR240	🕽 🔳 Sitemap	🔳 Logout
SOHO Mode		Syslog		
System Summary				
Setup	Svolog Server		(Name or ID &ddress)	
DHCP			(Rano of a Maarooo)	
Security				
System Management		E-mail		
Log		Enable E-Mail Alert		
> <u>System Log</u>	Mail Server:		(Name or IP Address)	
> System Statistics	Send E-mail to		(E-mail Address)	
	Log Queue Length:	50	entries	
	Log Time Threshold:	10	minutes	
		E-mail Log Now		

There are three parts in System Log: Syslog, E-mail, and Log Setting.

Syslog

Enable Syslog: If check the box, Syslog will be enabled.

Syslog Server: In addition to the standard event log, the SMCBR24Q can send a detailed log to an external Syslog server. Syslog is an industry-standard protocol used to capture information about network activity. The SMCBR24Q Syslog captures all log activity, every connection source, destination IP address, IP service, and number of bytes transferred. Enter the Syslog server name or IP address in the **Syslog Server** field. Restart the SMCBR24Q for the change to take effect.

E-mail

Enable E-Mail Alert: If check the box, E-Mail Alert will be enabled.

Mail Server: If you wish to have any log or alert information E-mailed to you, then you must enter the name or numerical IP address of your SMTP server. Your Internet Service Provider can provide you with this information.

Send E-mail To: This is the E-mail address to which your log files will be sent. You may leave this field blank if you do not want to receive copies of your log information.

Log Queue Length (entries): The default is 50 entries. SMCBR24Q will e-mail log when Log entries are over 50.

Log Time Threshold (minutes): The default is 10 minutes. SMCBR24Q will e-mail the log every 10 minutes or when the log criteria is met in the Log Queue Length or Threshold Settings.

E-mail Log Now: Clicking E-mail Log Now immediately sends the log to the address in the Send E-mail to Filed.

Log Setting

Log Setting
Alert Log
Syn Flooding IP Spoofing Win Nuke
Ping Of Death V Unauthorized Login Attempt
General Log
System Error Messages Deny Policies Allow Policies
Configuration Changes V Authorized Login
View System Log Outgoing Log Table Incoming Log Table Clear Log Now
Help Save Setting Cancel

Alert Log

Checks the following events box for receiving alert log. Syn Flooding, IP Spoofing, Win Nuke, Ping of Death and Unauthorized Login Attempt.

General Log

Checks the following events box for receiving log. System Error Messages, Deny Policies, Allow Policies, Content Filtering, Data Inspection, Authorized Login, Configuration Changes.

There are four setup buttons available in Log Setting screen

View System Log: Once you press this button, the new window will pop up the Log, and user can choose view **ALL**, **System Log**, **Access Log**, **Firewall Log and VPN Log**.

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Outgoing Log Table: Once you press this button, the new window will pop up and it will display the outgoing packet information including LAN IP, Destination URL/IP and Service/Port number.

Outgoing Log Table				
Time		Event-Type	Message	

Incoming Log Table: Once you press this button, the new window will pop up and it will display the incoming packet information including Source IP and Destination Port number.

Table	Refresh Close
▲ Event-Type	Message
	Table ▲ Event-Type

Clear Log Now: This button will clear out your log without E-mailing it. Only use this button if you don't mind losing your log information.

System Statistics

SMC Networks	Log => System Statistics	SMCBF	R24Q	🔳 Sitema	💿 Q-E ap 🔳 Logout	Button OFF
SOHO Mode		I AN	W	.01	WAN2	1
System Summary	Device Name	Oaxi	i)	xp1	ixp2	-
oystem ounnury	Status	Connected	Conr	ected	Down	-
Setup	IP Address	192.168.2.1	192.16	8.5.179	0.0.0.0	1
DUCD	MAC Address	24-3e-f8-60-91-79	30-33-a4	-c7-32-aa	32-0b-ee-88-f5-bc	
DHCF	Subnet Mask	255.255.255.0	255.25	5.255.0	0.0.0.0	1
Security	Default Gateway		192.1	68.5.1	0.0.0.0	
	DNS	192.168.2.1	192.1	68.5.1	0.0.0.0	
System Management	Received Packets	22993		46928	0	
Log	Sent Packets	22223		19619	0	
	Total Packets	45216		66547	0	
> System Log	Received Bytes	3915673		12125129	0	
> <u>system statistics</u>	Sent Bytes	12830991		3426072	0	
	Total Bytes	16746664		15551201	0	
	Error Packets Received	0		0	0	
	Dropped Packets Received	0		0	0	
			Refre	sh		

SMCBR24Q is able to perform the system statistics on Device Name, Status, IP Address, MAC Address, Subnet Mask, Default Gateway for LAN, WAN1 and WAN2.

Q-button in the SOHO Mode

The Q-button is a user friendly design. It provides a basic bandwidth management method. The end user can enjoy smooth Internet applications without any hassles with just one push.

Q-button, Q-button LED and Q-button icon

The Q-button is on the front panel with an LED above the button and an icon in the upper right corner of the UI indicating its current status. The default is off. When the Q-button is off (shown in Fig. 2), the green LED is off and the icon is grayed out. When the Q-button is on (shown in Fig. 2), the green LED is on and the icon turns yellow.

Fig. 1: Q-button off Q Q-Button OFF SMCBR24Q Sitemap Logout SOHO SOHO Mode SOHO Fig. 2: Q-button on Q-Button ON ! SMCBR24Q 🔳 Sitemap Logout SOHO SOHO Mode SOHO HOME

If no configuration in the QoS page by the UI:

When the button is pushed on without any configurations in the QoS page, the router distributes the available bandwidth provided by the ISP evenly to the min. rate of bandwidth of each PC on the LAN. The max. rate of each PC is 100% of the available bandwidth provided by the ISP.

If any configuration in the QoS page by the UI:

Any QoS configurations will make the Q-button a hot key. The end user can set the bandwidth management in the QoS page with the Q-button pushed off in advance. Once the Q-button is on, the pre-settings will be enabled. The end user can also set the bandwidth management with the Q-button pushed on.

Note: bandwidth management settings will only work with the Q-button pushed on.

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