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COI	ILEI	ILS

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Manual Overview	This manual guides you through the steps necessary for setting up and configu- ring your AirTies device. Please read this manual carefully before beginning the installation process.
	The Warranty does not cover failure or damage as a result of not following the ins- tructions in the manual. AirTies will not be held responsible in such circumstances
	The User Manual is an important resource you can refer to for safe and proper use of your device. Please retain it for future reference.
Safety and	 In order to prevent damage to your device, be sure to keep it in its original box during transportation.
Wantenance	The device must be used solely with its original power adapter.
	Do not insert a PSTN (phone) plug into the LAN port.
	 If you encounter any problems, do not open or disassemble the device. Call AirTies Technical Support.
	 In order to prevent electric shock, do not operate the device in wet or damp areas.
	 In the event of a gas leak, do not use the device. Do not turn the device on or on Do not plug or unplug the power cord.
	 Avoid using the device in dusty environments. If dust buildup should occur, use dry cloth to remove the dust.
	• To clean the exterior of the device use a dry cloth. Do not attempt to clean the interior. There are no user serviceable components inside.
	 For information regarding the installation and configuration of the device consult the remainder of this manual.
	Remove all protective plastic on the top and bottom of your device before you start using it.
	 The average usage life of the device is 7 years as determined by the Authority Industry and Trade.

1 INTRODUCTION	With Air 5450 which uses 802.11n technology, transfer wireless data, watch videos or upload your pictures to the Internet at speeds of up to 300Mbps. Backward compatible with the wireless 802.11b/g devices, the Air 5450 provides 6 times faster wireless communications compared to earlier technologies. Dead spots and packet losses on your wireless network becomes a thing of the past with the MIMO (Multiple Input Multiple Output) technology and the advanced error recovery system contained in the 802.11n standard.	1.3 Front Panel			4 (17) (SETUP)
			LED	Light	Status
1.1 Minimum Sys-	 For installation and configuration: a computer that has an Ethernet interface or wireless capability that is compatible with 802.11b/g/n standards, and is 		ር	Blue	AirTies router is "ON".
tem Requirements	running any version of Windows, UNIX, Linux or Mac Operating Systems		POWER	011	All hes louter is off
	 For the AirTies ADSL Utility: 32 bit Windows (98/ME/2000/XP/Vista) 			Red	ADSL connection
	The router does not need to be connected to a computer during normal		\rightarrow		established and active
	operation.		ADSL	Red Flashing	An ADSL connection is being negotiated
1 2 Package	1. Air 5450 300Mbps Wireless ADSL2+ Router			Off	No ADSL connection
Contents	2.Power adapter			Red	Internet connection
3. Ethernet cable			INTERNET	Off	No Internet connection
	4.Telephone cables (1 long, 1 short)			Red	LAN connection is
	5. Splitter (ISDN&PSTN)				ready to use
	6. Easy Setup CD 7. Quick Installation Guide		1 2 3 4	Red Flashing	LAN connection active. There is data exchange.
	8. warranty Card		EIHERNEI	Off	LAN connection is not active
	2 M (1) /			Red	Wireless connection is ready to use
			(۲) Wireless	Red Flashing	Wireless connection active. There is data exchange.
	1 2 3 4			Off	Wireless connection is disabled
				Red	USB connection establis hed
			•	Red flashing	USB connection active. There is data exchange.
	E-processing File E-spectrating		USB	Off	No USB connection



- **1.5** Main Features All-in-one solution: ADSL2+ Router, 300Mbps wireless access point, Firewall, 4 Ethernet ports
 - **High speed wireless:** 300 Mbps wireless access point compliant with the 802.11n (Draft2.0) standard
 - ADSL2+ technology for high speed Internet (24Mbps download/ 4Mbps upload)
 - Wireless Access range and Mesh Technology: AirTies Mesh Technology support for extending coverage area by using additional AirTies wireless access point devices.
 - IPTV-ready!!: The Air 5450, with its IP QoS, VLAN, PVC-Port mapping and IGMP support, is ready for the newest, state of the art services offered over the Internet such as IPTV*
 - USB Plug and Share feature gives you printer and file sharing capability throughout your entire network from a single point*
 - Advanced Wireless Security: WPA2-PSK, WPA2-802.1x, WPA-PSK, WPA-802.1x, WEP wireless encryption standards support
 - Automatic Wireless Security configuration: The AirTies ADSL Utility automatically configures wireless security settings for the router and the PC that is used for setup.
 - Firewall: Advanced anti-DoS SPI Firewall; MAC, URL and IP address based filtering for Internet access
 - · Easy installation with animated instructions with the Easy Setup CD
 - Automatic Firmware Upgrade: Automatic firmware upgrade capability with the AirTies ADSL Utility. It is important to use the latest firmware to get the best possible performance out of your router.
 - ADSL Usage Monitor: Especially useful for limited quota ADSL subscribers, making it easy to track monthly total download and upload amounts
 - Router: Advanced router with DHCP server, NAT, NAPT, DMZ, VLAN*, RIPv1/v2 support
 - 8 Channel PVC support
 - Robust against voltage fluctuations: Specially designed to withstand wide voltage fluctuations
 - · Remote management: Web and TR-069 support for remote management
 - 7/24 AirTies Call Center and Technical Support (engineering support by the AirTies R&D team when needed)
 - 3 year extended warranty
 - Designed to be compatible with your local ADSL infrastructure

*Features to be added with a firmware upgrade

2 INSTALLATION

2 1.Basic Cabling Procedure



Connecting the Cables (PSTN)

All wiring and configuration procedures explained in this document are also demonstrated with the animation that starts when you run the Air 5450 Easy Setup CD. Please run the **Easy Setup CD first**.

- 1- Connect the power adapter provided to the power port of your router and plug it into the wall outlet.
- 2- Turn on the Air 5450 by setting the On/Off switch to the "|" position.
- 3- Using the short telephone cable provided, connect the Modem port of the Splitter to the ADSL port of your router.
- 4- Connect the main phone line to the Line port of the Splitter. If the main phone line is currently connected to your phone, first disconnect it from your phone, and then connect it to the Line port of the Splitter.
- 5- Using the long telephone cable provided, connect your phone to the Phone port of the Splitter.
- 6- Using the Ethernet cable provided in the box, connect your PC to any of the four Ethernet ports of your router.



Connecting the Cables (ISDN)

All wiring and configuration procedures explained in this document are also demonstrated with the animation that starts when you run the Air 5450 Easy Setup CD. Please run the **Easy Setup CD first.**

- 1- Connect the power adapter provided to the power port of your router and plug it into the wall outlet.
- 2- Turn on the Air 5450 by setting the On/Off switch to the "|" position.
- 3- Using the short telephone cable supplied in the box, connect the "MODEM" port of the ISDN Splitter with the "ADSL" port of the Air 5450.
- 4- Using the longer telephone cable supplied in the box, connect the telephone wall socket to the "LINE" port of the ISDN Splitter. If your main phone line is connected to an ISDN terminal, disconnect it from the terminal and connect it to the "LINE" port of the ISDN Splitter.
- 5- Using the phone cable, connect the "PHONE" port of the ISDN line Splitter to the ISDN terminal.
- 6- Using the Ethernet cable provided in the box, connect your PC to any of the four Ethernet ports of your router.

3 ADSL SETTINGS

3.1 ADSL Status and Statistics

When you click **"ADSL**" on the main menu of your router's Web interface, the **"ADSL Status/Statistics**" page will come up. Here, you can see detailed information about your router's ADSL connection and upstream/ downstream data rates. You can also check the status of your current PVC connection.

Training Status:	Disconnected		
Mode:	N/A		
Line Status:	Unknown		
	Downstream	Upstream	
ADSL Rate(Kb/s):	N/A	N/A	
Attainable Rate(Kbps):	N/A	N/A	
SNR Margin(dB):	N/A	N/A	
SNR Margin(dB): Attenuation(dB):	N/A N/A	N/A N/A	

- 3.2 ADSL setup When you click "ADSL" on the left menu of your router's Web interface, you will see "ADSL Setup" as the first sub menu. Go to "ADSL Setup" to configure your router's ADSL settings and follow the steps below:
 - 1. When you click on the "**ADSL Setup**" submenu, a table showing your default PVC settings will be displayed.



- 2. To enter your ADSL settings click the "Edit" button in this table. The "PVC Settings" screen will come up.
- On the "PVC Settings" screen, enter the user name and password given to you by your ADSL service provider in the "ADSL Username" and "ADSL Password" fields, respectively. Click "Save" to complete your ADSL setup.

	PVC Setti	ngs		
To set up your ADSL connection, choose the protocol to com	nect to internet and then ente	r connection	information	n. You can get this information from your service provider.
PVC	Name vc1	Protocol	PPPoE •	
PPI	P Settings	PVC	Paramete	115
Encapsulation	n: 🔘 LLC 🔿 VCMUX	VPI	8	
ADSL Username	9: username	VCI	35	
ADSL Password	d: ••••	ATM QoS :	UBR	•
MTU	J: 1492 byte	PCR		cps
		SCR		cps
		MBS		cells

3.3 DNS setup

DNS (Domain Name Service) is an Internet service that translates domain names into IP addresses. For example, when you try to go to the www.airties.com address, first your Internet service provider's DNS will try to translate it to the corresponding IP address. The DNS system is, in fact, its own network. If one DNS server doesn't know how to translate a particular domain name, it asks another one, and so on, all the way to the main InterNIC DNS server, until the correct address is returned. Most service providers will provide Domain Name services for security and speed.

Go to "**DNS Setup**" under the "**ADSL**" menu of your router's Web interface. On the screen that comes up, you will see three DNS fields. The first two are your service provider's DNS addresses and cannot be changed. If you prefer to use a different DNS server, enter its IP address in the "**DNS 3**" field.

	DNS Setup
DNS service provides web address to IP address translation. If your ISP provid	es DNS service, leave this setting empty. If you prefer to use another DNS server, enter its IP addres
	DNS 1: DNS 2: DNS 3: 0 0 0 0

3.4 Mode setup

Different Internet service providers may differ in terms of modes of the ADSL service they offer. Some only provide basic ADSL service, while others provide different modes of ADSL such as ADSL2, ADLS2+, etc..

Your router supports multiple ADSL modes. You can see the ADSL modes supported and change settings by going to "**Mode Setup**" under the "**ADSL**" menu of your router's Web interface. All ADSL modes are enabled by default. On this screen, you can disable/enable the modes as you choose. Click "**Save**" when you are done with the mode setup.

Mode Setup	
Annex Type Annex A 💿 Annex B	
G.Dmt	
V T1.413	
ADSL2	
ADSL2+	
AnnexM	
V MultiMode	
	Save Cancel

Important:Please choose your Annex Type as Annex A (PSTN) or Annex B (ISDN) according to your line type on Mode Setup screen

4 WIRELESS SETTINGS

Your AirTies router can be used as a wireless access point to set up a wireless hotspot. With the 802.11g standard it supports, you can setup a wireless network with data rates of up to 54Mbps allowing you to share files between PCs at very high speeds. Your router is backward compatible with the 802.11b standard and can also work with 802.11b devices without affecting the performance of 802.11g devices.



4.1 Setting up a wireless connection

Your router has Wireless networking enabled by default. No additional router configuration is needed for your wireless computers to access the Internet. It is recommended that you configure wireless security as explained in the sections that follow.

In order to connect your laptop to the AirTies router wirelessly:

Go to Start-Settings-Network Connections- Wireless Network Connection-View Wireless Networks. On the "Wireless Network Connection" screen, select the wireless network named AIRTIES_5450 and click "Connect".

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-

4.2 Wireless Network Settings

I.

When you click the "WIRELESS" menu of your router's Web interface, you will be in the "Wireless Connections" screen that lists all the wireless clients connected to the router. You can block the access of any client to your wireless network by using the "MAC Filtering" option.

Wireless Connections
You can view all wireless clients connected to your modern on this page. Wireless Network Adve 🗹
Connected Cilotts SSID : ARTIES_Ard=S40 SECURITY IN Dereyation STATUS : Active AACAGGress Rame Signal Level Rate No Writes Cold Connected

To configure your wireless network settings, go to "Wireless Setup" under the "WIRELESS" menu. On the screen that comes up you can see whether wireless networking is enabled or not.

A	uvance Setup	
Wireless networking is enabled in your modern's default configuration dients. You can select a channel between 1-13 for wireless communica	. You can change your wireless network name (SSID), and hide it from other wireless tition (we recommend channels 1, 6, and 11).	
Frequency :	2.4 GHz	
Mode :	802.11b/g •	
Channel :	11 .	
Power:	100% -	
Bandwidth :	20 MHz	
Rate(Mb/s):	Auto 👻	
Enabled Primary SSID:	Hidden SSID User Isolation Security	
AIRTIES_Air5450	No Encryption	
Save Cancel		

Wireless settings are in two different categories: General wireless settings for your router and settings for your particular wireless network (SSID).

- **"Frequency**" shows the main frequency band your router is using. Depending on the frequencies supported it could be 2.4GHz or 5GHZ.
- "Mode" shows the IEEE 802.11 mode actively used by your router. The default mode is 802.11b/g, supporting both 802.11b and 802.11g devices.
- "Channel" field allows you to choose the channel your router will broadcast in. It is recommended that you choose one of channels 1,6, or 11.
- "Power" displays the total transmitted power from the device
- **"Rate**" shows the highest wireless data transfer rate supported by your router. It is set to "Auto" by default. This allows for automatic adjustment of data transfer rate based on distance and signal quality.

4.3 Wireless Security Settings	It is not necessary to configure wireless security to enable wireless communication. However, for your data security, it is recommended that you choose one of the security protocols described below that best fits your needs.	4.3.2 WPA S Settings
	WPA2, WPA, and WEP are wireless encryption protocols used to encrypt the data traffic within the wireless network. MAC Address Filtering allows you to control which wireless terminals can connect to the AirTies router and share your Internet access. Access to the router by unauthorized terminals is blocked.	
	For your wireless network security, it is recommended that both MAC Address filtering and one of WPA, WPA2 or WEP wireless encryption protocols be activated.	
4.3.1 WPA2 Security Settings	WPA2, defined by the IEEE 802.11i standard, is one of the latest wireless encryption methods. If you would like to use WPA2 in your wireless network, all the wireless adapters in your network must support WPA2. For Centrino platform computers, it is necessary to download the WPA2 updates for the Windows XP operating system to be able to use WPA2 (www.microsoft.com).	
	To enable WPA2 encryption and configure the necessary settings:	
	 Go to "Wireless Security Settings" under the "WIRELESS" menu of the Web interface of your router. 	
	 Click on the "WPA/WPA2" button in the "Security Type" section of the "Wire- less Security" screen. 	
	3. Select "Personal" as "Authentication Type".	
	4. In the "Encryption Type" field you can choose between "WPA2" and "Both". If all the wireless devices on your network support WPA2, then select "WPA2". If some of the wireless clients support WPA only, then select "Both" in which case the devices that support WPA2 will use WPA2 and those that do not support it will use WPA over their wireless connection.	
	 Enter a network key that is 8 to 63 characters long (use a combination of letters and digits) in the "Passphrase" field. Make sure you choose a key that is not easy to guess. Click "Save". 	
	You must enter the same passphrase for all the wireless clients that will communicate with your device.	
	Wireless Security	
	Choose SSID to apply security. AirTites_Air5450 + Mesh ▼	
	Security Type: 🔘 No Encryption 🔘 WEF 🔮 WPAWPA2	
	vm-A is a very secure protoco. UN VM-A encryption, the encryption key is referenced periodically and therefore is key admicitud to treak. Enter a passphase from 8 up to 63 characters, and then click Save. You have to also enter this passphrase on the wireless clients that will connect to the access point. If you are interested in click Save (1) aligneding table, using the unavertable table using interested in click Save.	
	и рок во инстрано и колду интерното ти с рокк, ну волгонскоот, трай бил мер заве парлятити, автор, сон пол плот впортавлят, по рок во и полозование и полозование то с рокк, ну волгонскоот, трай бил мер заве парлятити, автор, сон пол плот в портавлят,	
	Adhenfication Type: Personal - Encryption Type: WPA2 - Passphrase: 22GH2,IPK	

Security

Save Ca

WPA (Wi-Fi Protected Access) encryption standard is one of the current wireless encryption standards that provide a high level of data protection. All AirTies wireless products and 802.11g compliant wireless communication devices support WPA. If you would like to use WPA on your wireless network, all the wireless adapters on your network must support WPA.

To enable WPA encryption and configure the necessary settings:

- 1. Go to "Wireless Security Settings" under the "WIRELESS" menu of the Web interface of your router.
- 2. Click on the "WPA/WPA2" button in the "Security Type" section of the "Wireless Security" screen.
- 3. Select "Personal" as "Authentication Type".
- 4. In the "Encryption Type" field you have two choices: "WPA2" and "Both". To be able to use WPA encryption, select "Both" in which case the devices that support WPA2 will use WPA2 and those that do not support it will use WPA over their wireless connection.
- 5. Enter a network key that is 8 to 63 characters long (use a combination of letters and digits) in the "Passphrase" field. Make sure you choose a key that is not easy to guess. Click "Save".
- 6. You must enter the same passphrase for all the wireless clients that will communicate with your device.

Wireless Security
Choose SSID to apply security AirTies_Air6450 + Mesh •
Security Type: 💿 No Encryption 🕤 WEF 🔞 WPAWPA2
WPA is a very secure protocol. On WPA encryption, the encyption key is refreshed periodically and therefore it is very difficult to break. Enter a passphrase from 8 up to 63 characters, and then click Save. You have to also enter this passphrase on the wireless clients that will connect to the access point.
If you are interested in using Enterprise WPA (802.1x) authentication, visit our web site http://www.airties.com for more information.
Authentication Type: Personal Encryption Type: Both Passpirase (1D307/xX() Group rekey interval(s): 3600

4.3.3 WEP Security Settings	Your AirTies router supports WEP encryption in addition to the WPA and WPA2 encryption standards. If any of the devices in your wireless network does not support WPA or WPA2, it is recommended that you choose WEP encryption.
	To enable WEP encryption and configure the necessary settings:
	 Go to "Wireless Security Settings" under the "WIRELESS" menu of the Web interface of your router.
	 Click on the "WEP" button in the "Security Type" section of the "Wireless Security" screen.

- 3. Select "Open" for "Authentication Mode".
- In the "WEP Security Type" field, there are four choices for specifying a network key.
- 1. 10 hexadecimal characters(A-F and 0-9) for 64-bit encryption
- 2. 5 ASCII characters for 64-bit encryption
- 3. 26 hexadecimal characters(A-F and 0-9) for 128-bit encryption
- 4. 13 ASCII characters for 128-bit encryption

You can enter up to 4 network keys and also choose the one you want to use. Click "Save".

5. You must enter the same password for all the wireless clients that will communicate with your device.

Wireless Security				
Choose SSID to apply security AirTies_Air5450 + Mesh 💌				
Security Type: 🛞 No Encryption 🗑 WEP 🖯 WPAWPA2				
Enter at least one password for VEP encryption. Password length should be selected on Encryption Type. HEX type passwords should consist of hexadecimal characters (digits 0 through 9, a, b, c, d, e, 0, The encryption supports tho authentication modes: open and shared. It is recommended to use open moders (Vou can enter up 4 passwords and select any one of them. You have to also enter this password on the wireless clients that unconcet to your access point.				
Authentication Mode Onen • WEP Security Tool 64 Ba(HEX): 10 Characters •				
Active Ker Choose Key				
1 @ 02EFDDA23E				
2 💿				
3 🔘				
4 0				
Save Cancel				

4.4 MAC Filtering

You can specify those clients that will be allowed access to your network using MAC Filtering. MAC Filtering is not required for wireless security, but it is recommended that you use it in addition to encryption for your data protection.

MAC Filtering
Ersbok MAC Filtern
New MAC Address Address Address Existing LAN Clients
NAC ALCRESS

To enable MAC Address filtering and make the necessary settings for blocking clients:

- 1. Click on "MAC Filtering" under the "WIRELESS" menu of the Web interface of your router.
- 2. In the window that appears, check the "Enable MAC Filtering" box.
- 3. Select "Just Deny MAC Addresses in MAC List".
- 4. For each device to be denied access, enter the wireless MAC address of the device in the "New MAC Address" field or select from "Existing LAN Clients" and then click the "ADD" button.
- 5. When you are done entering the MAC addresses, click "Save".
- To add the devices that will be allowed access to the wireless network, select "Just Allow MAC Addresses in MAC List" instead of "Just Deny MAC Addresses in MAC List" and enter the MAC addresses.

4.5 AirTies Mesh settings

AirTies Mesh Technology® resolves the signal loss and limited coverage area problems often encountered in multi-story concrete buildings. To extend wireless coverage area, one or more AirTies wireless access point devices functioning in repeater mode are connected to your device to set up a **"Mesh Network**". The wireless access points communicate with each other via the Mesh protocol and boost the signal wherever signal strength is low thus increasing wireless range. Computers connect to the access point with the strongest signal and get to the router over the Mesh Network. Thus, the weak signal or dead spots due to barriers such as concrete walls are eliminated and the coverage area can be expanded to the maximum.



	Ac	dvance Setup				
Wireless networking is enabled in your modern's default configuration. You can change your wireless network name (SSD), and hide it from other vireless clients. You can seled a channel between 1-13 for vireless communication (ve recommend channels 1, 5, and 11).						
	Frequency :	2.4 GHz				
	Mode :	802.11b/g	-			
	Channel :	11 👻				
	Power:	100% -				
	Bandwidth :	20 MHz				
	Rate(Mb/s) :	Auto 👻				
Enabled Primary SS	SID:	Hidden SSID	User Isolation	Security		
V AirTies_Air5	i450			No Encryption		
	Sa	Cancel				

 Go to "MESH" under the "WIRELESS" menu of the Web interface of your router. In the "Mesh Settings" screen that comes up, click the "Search AP" button.

Mesh Settings
AirTies Mesh Networks Technology overcomes signal afteruation and service area limitation problems that may raise in multiple-storey or reinforced concrete buildings. Mesh enables you to widen your service area with AirTies access point/speater devices without any need to cables. To create a Mesh, select going to begin looking for reachable access points.
Search AP
MESH List Status BSSID(MAC Address)

To setup a Mesh Network with your device:

 Go to "Wireless Setup" under the "WIRELESS" menu of the Web interface of your router. Select a channel for your "Mesh Network" to operate in (it is recommended that you use one of channels "1", "6", or "11") from the ones listed in the "Channel" field. You should select the same channel on all the wireless access point devices that form the "Mesh Network". When you click the "Search AP" button, the router will start searching for wireless access points to connect to within its range and list the access points detected.

ies Mesh Networks Technology overcomes si our service area with AirTies access point/repr	gnal attenuation and servic ater devices without any ne goin	e area limitation p ed to cables. To i ig to begin lookini	rroblems tha create a Mes g for reachal	it may ari h, select ble acces	se in multiple-sto 'Enable bridge/re s points.	rey or reinforced peater connectio	concrete buildings. Mesh enables you to v ns' checkbox and click 'Save'. Your moden
		s	earch AP				
		Neighbo	uring AP L	ist			4
Add	BSSID(MAC Address)	SSID	Channel	Mode	Security	Signal Level	
E	00:1C:A8:18:89:9A	navatay	11	11bg	WPA	Poor	
	00:1A:2A:C0:4F:97	mood	11	11bg	WPA	Average	E
	00:1C:A8:1E:2E:56	ADSL_AIRTIES	11	11bg	WPA	Excellent	
	00:1C:A8:1D:E8:21	ADSL_AIRTIES	11	11bg	WPA	Poor	
	00:1C:A8:1D:ED:CA	ADSL_AIRTIES	11	11bg	WPA	Good	
	00:1A:2A:7C:9F:24	TARCAN_DENT	11	11bg	WPA	Poor	
	00:1C:A8:04:08:79	AIRTIES_AP- 302	11	11bg	No Encryption	Good	
	02:0C:F1:54:7C:DD	Free Internet Access	11	11b	No Encryption	Poor	
	00:12:BF:32:71:E5	sojitz	3	11bg	WPA	Poor	
tend.			-			-	
	s	M Status BS: A V 00:1C	ESH List SID(MAC ddress) :A8:1E:2E:	56 D	elete		
	Add Cor	nnection:			Add		

- 4. Check the box for the access point(s) that you would like your router to setup a Mesh connection with. Select only those access points that have a signal level of "Average" or better. Click "Save" to complete the Mesh settings of your device.
- The same Mesh settings should be made on all the AirTies access points selected above. You can find detailed information about Mesh settings for each type of access point device in their user manuals.

Important: All AirTies devices that form the Mesh Network should operate on the same channel.

5 ADVANCED

SETTINGS

You can do the installation and basic connection settings (ADSL and Wireless) of your router using the Easy Setup CD included with your product. The Easy Setup CD helps you do the initial installation of your device quickly and easily. In addition to the CD, your router has an easy to use Web interface you can directly connect to and configure the basic and advanced settings. You do not need to be connected to the Internet to use the Web interface of your router. It is sufficient to have your computer connected to the router. Follow the steps listed below to access the Web interface:

- 1- Open your web browser (Internet Explorer, Mozilla Firefox, etc.).
- 2- In the Address bar, enter **192.168.2.1**, the default IP address of your device. This will launch the Web interface of your router.



3- In the "LOGIN" screen that comes up you will be prompted for a password to login. Your router does not have a default password. Initially, leave this field blank and continue by clicking "OK".



Note: How to set a password for logging into the Web interface is explained in the "**Password Settings**" sub section under the "**MANAGEMENT**" section.

5.1 HOMEPAGE

The **"HOMEPAGE**" is the first screen that comes up after logging in. On this screen you can find information on the general settings and current operating status of your device.

номераде						
Thank you for choosing Artires. Please read the user manual location how to see all electrone provided in this device effectively. Please don't hesitate to call ArtTies Call Center at +(90)212 444 0 239 if you need further help.						
Some information	Some information on the operational status are listed below.					
Internet Connection:	Disconnected					
ADSL Connection:	Disconnected					
ADSL Rate(Kb/s):	-/ -					
Internet IP Address:						
ADSL MAC Address:	00:1C:A8:6A:2A:AC					
Ethernet:	Connected					
DHCP Server:	Enabled					
Primary SSID::	AIRTIES					
Wireless Network State	s: Enabled					
Firmware Version:	1.1.0.1					
Serial Number:	AT0600806000016					
Uptime:	00:02:19:23					
System Clock:	04:19:23 01/01/2000					

5.2 LAN

Any device that you connect to your router, such as PCs, network printers, IP cameras, etc., is a client. Any operation related to clients that will have a local network connection to your router can be done through the "LAN" menu of the Web interface and its submenus.

When you click on the "LAN" menu, the "LAN Client List" screen will come up. All clients that are connected to your router and their connection details are shown on this screen.

LAN Client List					
All DHCP Clients can be viewed on this page.					
MAC Address	IP Address	Name	Remained Lease Time	LAN Group	
1. 00:1A:4B:5C:7A:7D	192.168.2.3	ugur	0 Days, 0:58:46 Hours	lan0	
1. 00.10.40.30.10.10	102.100.2.3	ugu	0 Daya, 0.30.40 Houra	laito	

5.2.1 IP and DHCP Settings Every client that is connected to your router is given a local IP address. The module that assigns these IP addresses is the DHCP (Dynamic Host Configuration Protocol) module. For IP and DHCP configuration of your router, go to "**IP and DHCP Settings**" under the "**LAN**" menu.

IP and DHCP Settings				
LAN IP settings and DHCP settings can be configured on this page.				
Local IP Settings				
IP Address:	192.168.2.1			
Netmask	255.255.255.0			
DHCP Settings				
 Enable DHCP Server 				
Start IP Address:	192.168.2.2			
End IP Address:	192.168.2.254			
Lease time (sec):	3600			
Enable Relay				
Connection:	wan-0 💌			
Server IP Address:	20.0.0.3			
Disable DHCP				

Local IP Settings

You can change the IP address and Netmask of your router in this section. The default IP Address of your device is 192.168.2.1, and the default Netmask is 255.255.255.0. You can change these values based on the needs of your existing network.

IP and DHCP Settings					
	L4N IP settings and DHCP settings can be configured on this page.				
	Local IP Settings				
	IP Address:	192.168.2.1			
	Netmask:	255.255.255.0			
	DHCP Settings				
۲	Enable DHCP Server				
	Start IP Address:	192.168.2.2			
	End IP Address:	192.168.2.254			
	Lease time (sec):	3600			
۲	Enable Relay				
	Connection:	wan-0 👻			
	Server IP Address:	20.0.0.3			
0	Disable DHCP				

eb	DHCP Settings	This section is for DHCP related settings. The settings you can change are the following:
on	Enable DHCP Server	DHCP is enabled by default. In this section you can assign an address range from which the router can assign local IP addresses to clients and the lease time. The default IP address range for your router is 192.168.2.2 through 192.168.2.254. Maximum lease time for an IP address is set as 3600 seconds, which means the assigned IP address will be renewed every 3600 seconds.

	IP and I	DHCP Settings			
LAN IP settings and DHCP settings can be configured on this page.					
Local IP Settings					
	IP Address:	192.168.2.1			
	Netmask	255.255.255.0			
_	DHCP Settings				
۲	Enable DHCP Server				
	Start IP Address:	192.168.2.2			
	End IP Address:	192.168.2.254			
	Lease time (sec):	3600			
0	Enable Relay				
	Connection:	wan-0 👻			
	Server IP Address:				
0	Disable DHCP				

Enable DHCP Relay

DHCP relay makes it possible for a DHCP server on a different network to assign local IP addresses to clients connected to the router. To do this, the address of the device (modem, server, etc.) that runs the DHCP service needs to be known.

	IP and C	HCP Settings	
	LAN IP settings and DHCP set	ings can be configured on this page.	
	Local IP Settings		
	IP Address:	192.168.2.1	
	Netmask:	255.255.255.0	
0	DHCP Settings Enable DHCP Server		
	Start IP Address:	192.168.2.2	
	End IP Address:	192.168.2.254	
	Lease time (sec):	3600	
۰	Enable Relay		
	Connection:	wan-0 👻	
	Server IP Address:	192.168.3.1	
0	Disable DHCP		

Important: If DHCP Relay is enabled, the DHCP server of your router is disabled and does not assign IP addresses to clients

Disable DHCP

Stops all DHCP activity on the device. When in this mode, clients connected to the router need to be assigned an IP address manually or they have to get an IP address from another DHCP server in order to communicate with the network.

	IP and	DHCP Settings			
LAN IP settings and DHCP settings can be configured on this page.					
Local IP Settings					
	IP Address:	192.168.2.1			
	Netmask:	255.255.255.0			
0	DHCP Settings Enable DHCP Server				
	Start IP Address:	192.168.2.2			
	End IP Address:	192.168.2.254			
	Lease time (sec):	3600			
0	Enable Relay				
	Connection:	wan-0 👻			
	Server IP Address:	192.168.3.1			
	Disable DHCP				

In order for any changes made to the IP or DHCP settings to take effect, you need to click "**Save**".

5.2.2 LAN Clients

You can see all the clients connected to your router and their connection details by selecting "LAN Clients" under the "LAN" menu of your router's Web interface. Through this menu, you can also reserve an IP address for a client. When an IP address is reserved for a client, it cannot be assigned to any other client. Whenever the client connects to the router, it can get the IP address reserved for it.

You can see the IP addresses that are reserved in the "**Static Addresses**" table. "**Dynamic Addresses**" table shows the IP addresses assigned but not reserved.



Click "Save" for the changes you have made in the "LAN Clients" page to take effect.

5.3 FIREWALL	A firewall prevents unauthorized Internet users from accessing your local network and computer.
settings	AirTies Firewall has SPI (Stateful Packet Inspection) feature. SPI monitors the pro- tocol and packet addresses being received to determine if the information should be passed through the firewall to the connected computers. Internet addresses that are a source of malicious attacks are permanently blocked from accessing you network.
	You can also limit or block the Internet access of any local user by defining advan- ced rules for Internet access.
	The following sections describe the submenus under the " FIREWALL " menu of the Web interface.
5.3.1 Access control	You can allow or block Internet access of any computer on your local network using

the Access Control feature. These access restrictions can be based on IP address as well as MAC address.

Click "New" to define a new access rule.

			Access Control					
You can define rules that establish access rights to Internet for clients in your local network. The list of currently active rules is below. To add a new rule, click New.								
			Enable LAN Access Cor	trol			1	
			New					
	Rule Name	Client List	Active Applications	Activate	Configuration		1	
							1	
						Save Can	cel	

In the window that appears:

- Enter a name for the access rule you would like to define in the "RULE NAME" field. Choose a name that is easy to remember.
- In the "LAN Interface" field, enter the LAN interface to which the rule will apply. (Routers that support VLAN have more than one LAN interface.)
- Select the PVC to which the access rule will apply in the "WAN Interface" field.
- In the "Select Client" section, enter the IP or MAC addresses of the clients whose access you would like to restrict with this rule and click "Add >".
- In the "Select Applications" section, specify the applications you would like to block access to by the clients you have defined in the "Select Clients" section previously. You can select the application from the "Existing Applications" list and click "Add >"".
- You can specify the times that the Access Rule will be in effect by checking the "**Schedule**" box. If you define scheduling rules, then the access rule will be in effect only during the times specified.

- To add a new application to the "Existing Applications" list, click "New". In the window that appears:
 - o Enter a name for the application you are going to define in the "Application Name" field.
- o Enter the LAN and WAN ports the application uses and click "Save".
- · Click "Save" when you are done.

	10.6	itors		
To add a new rule, ento LAN chert, or writer on the cherts that the mile	er rule name. To specify the LAN clien IP address range, or select them from will be applied in the Client Ltd, apecify	ts that the rule will be applied, enti- n the existing client hat and then y the applications that will be read	er the MAC addresses of the chck Add. When you have all incled.	
Rule Name Test				
	LAN Interface I an 0 +	WAN Interface (vc.) +		
SULCI CLENT		Restricted	Client List	
New IP address range			a70	
MAC ADDRESS	ISTING LAN CIGNES TP ADDRESS NAME			
ENGLARE EDENERATION	192.165.2.2	1/16 >		
		K Remarke		
falsed the sectorization	a that will be some excision of for the s	lantich in the IDestricted Class I is	di Hannandan analisatian	
that is not present in th are done specifying app	in that will become restricted for the c terited to become restricted, you can d dications click "Save".	letine a new application by choking	(In you want an appreciation) The 'New' bullon. When you	
SELECT APPLICATIONS Block all half of E				
E Canada Boost 1 2013 - 1 2014	Existing Applications	Restricted Applic	ations	
Postiar -				

• To activate the rule you have defined, check the "Enable Access Control" box and click "Save".



5.3.2 MAC address filtering

MAC Address Filtering allows you to restrict network access based on MAC addresses. When this feature is activated, the clients whose MAC addresses are on the list will have their access to the router blocked.

To restrict access based on MAC Address:

- Check the "Enable MAC Filtering" box.
- Enter a MAC address or choose from the list of existing clients and click " Add".
- Click "Save".

The IBAC Filtering feature blocks the computers to access the network, teature is exabled, users where IBAC addresses are listed, are blocked from address and click Add or addret from the existing deministration.	ccording to their MAC addresses. When this modern and internet access. Enter a new MAC
New MAC Address Address Existing LANC Litents Via 2005253 Via 2005253 001120-05136-170 152,166,2.2 655 456	Blocked Client List

5.3.3 URL filters

You can block access of any computer in your local network to the websites you specify. In this window, you can enter the URL or any keyword that is part of the URL for websites you would like to block access to.

- To activate the URL filtering feature check the "Enable URL Filter" box.
- In the "SELECT CLIENT" section, specify the IP or MAC addresses of the clients that the URL filtering rule will apply to, clicking the "Add" button after each entry.
- Enter the URL's you would like to block access to in the "Keyword" list.
- Click "Save".

URL filter will be applied in the C	from the existing client list an Client List, specify the filters the	d then click Add. Wh it will be applied.	en you have all the clients that the	
	Enabled	Url Filter		
SELECT CLIENT				
			Restricted Client List	
New MAC Address		Add > 00	1A:48:5C:7A:7D	
New IP address range		Add >		
Existing	LAN clients			
MAC ADDRESS	IP ADDRESS NAME	-		
00:13:CE:AA:76:D0 11	92.165.2.3			
		Add >		
		< Remove		
You can block the access of s	iome of the clients in your neth	work to some Web sit	tes you determine.In this page, you likes that you want to block access	
You can block the access of a can entor the URL addresses to To block a client in your net client in Access Control" page. Keyword	some of the clients in your net or some pertiens of the URL ac work in this way, check the 'B -	work to some Web sit dresses of the Web s lock with URL Filters" Geyword	tes you determine.In this page, you first that you want to block access box in the rule you defined for that	
You can block the access of a can enter the URL addresses to To block a client in your set client in Access Control page. Keyword	some of the clients in your net or some pertises of the UR: a work in this way, check the 'B Bonnove	work to some Web sit dresses of the Web s lock with URL Filters' Geyword	tos you determine.In this paga, you fires that you want to block access box in the rule you defined for that Remove	
You can block the access of s can enter the URL addresses late the URL addresses client in Access Control page. Keyword	some of the clients in your nets or some persons of the URL ac work in this way, check the 'B Bonnove Bonnove	work to some Web sit dresses of the Web s lock with URL Filters' Seyword	No you determine. In this page, you first that you want to block access box in the rule you defined for that Remove Remove	
You can block the access of can enter the URL addresses to To block a cleant in your set cleant is Access accessing page.	sense of the clients in your nets or sense persists of the URL as were in this way, check the 'T Bernow Benzow Benzow	vork to some Web sit dresses of the Web s lock with URL Filters' Geyword	Soci you determined in this page, you Area that you mane to hits a back a coccess book in the rule you defined for that Remove Remove Remove	
You can block the access of can enter the URL addresses to To Mack a clean in your set clean to Access accesses accessed Keyword	some of the clients in your net or some portiens of the Life, ac work in this way, check the 't Bosnoon Bosnoon Bosnoon	work to serie Web si dresses of the Web s dresses with URL Fibers' Geyword	tos you determined it this page, you hay that you mark to block access box in the rule you defined for that Reserve Benove Banove Banove	
You can block the access of a car error the URL addresses Letter in Vacena Control page. Keyword	some of the clients in your net of some portiens of the URL at work in this way, check the 'U Demove Bensore Bensore Bensore Bensore	work to serie Web is Minesses of the Web is Minesses with URL Planes'	es you détermine la thé pape, you Rey that you want to thock access book in the rule you defined for that Reserve Reserve Batterroe Batterroe Batterroe	
You can block the access of the average the ML addresses of the block a sector by sector dent in Xocena Control page. Kayword	serie of the clients in your each or series perférers of the LRS, ac work in this way, check the 'D Benetoon Benetoon Benetoon Benetoon Benetoon	work to serve Web si dresses of the Web s lock with URL Filters'	No you obtermine in this pope, you boot have you obtermine in this pope, you boot have you obtained boot have the observed of	
You can block the access of can solar the URL addresses the URL addresses taken the Access County Super- Keyword	some of the clients is your outs or some performs of the USLs, de- week is this way, check the 'I Bestoor Bestoor Bestoor Bestoor Bestoor Bestoor Bestoor Bestoor Bestoor	work to seene Web sis Mresses of the Web s lock with URL Filters" Geyword	No you determine. In this pape, you Boo that the weard to block access boo in the reley on defined for that Beneroon Beneroon Beneroon Beneroon Beneroon Beneroon Beneroon	
You can block the access of the access can be accessed on the acce	error of the clients in your net or some portices of the URL as work in this way, cliect the 'T error of the URL as error of the URL as error of the URL as error of the URL as error of the URL as error of t	work to scene Web sit	No you determine in this pape, you May have want to block access the many want to block access to block access accessore accesore accesore accessore accesore	
You can block the access of a can block the access of a serie file UR, addresses the canon block the access and the canon block the the Access Control gap.	som of The Clouts Is your entit or some particles of the UEL at which Is The way, cloud, the The Rencon Rencon Rencon Rencon Rencon Rencon Rencon Rencon	work to seene Web si Mresses of the Web s Mresses of the Web s lock with URL Filters'	on you determine it the page of the second s	
Vor can block the access of a out to be a different of the second of out to be a different of the second of out of the second of the Keyword	sere of the clients in your net or even periods of the U.S. with the U.S. we have the the series of the U.S. we have the the the series of the U.S. we have the the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the U.S. we have the series of the U.S. we have the U.S. we have the U.S. we have the series of the U.S. we have the series of the U.S. we have the U.S. we	work to serve Web sit	en you dettermine in this pape, yee this that you will be lack a group will be that you be that you will be lack a group will be memory will be the second will be the memory will be a second will be a second will be a second will be a second will be memory will be a second will	

5.4 NAT

Network Address Translation (NAT) is a way to map an entire network (or networks) to a single IP address. NAT allows multiple clients in your local network to access the Internet through a single global IP address (WAN IP) assigned to you by your Internet service provider.

You can enable/disable NAT using the "**NAT**" menu of your router's Web interface. NAT is enabled by default.

NAT (Network Address Translation)						
Network Address Translation (NAT) performs the necessary translations that allow the IP address given to you by your service provider (VAM IP address) to be shared by multiple clients in your local network.						
Enable NAT Disable NAT						

5.4.1 Port Forwarding

"**Port Forwarding**" is used in order for a host outside your local network to access a host on your local network.

To configure Port Forwarding on your router, go to "**Port Forwarding**" under the "**NAT**" menu of the Web interface of your router.

On the screen that appears, you will see the list of currently defined port forwarding rules. If no rules have been defined yet, then the list will be empty. To define a new port forwarding rule, click "**New**"

		Port Forwarding		
		Enable Port Forwarding		
		New		
Rule Name	Client IP	Active Applications	Activate	Configuration
 _	_	_	_	_

On the top section of the page that comes up, fill out the fields related to the forwarding rule and the client PC's the rule will apply to.

Rule Name: Enter a name for the new rule you are defining.

SELECT CLIENT: This section is for specifying the clients that the port forwarding rule will apply to. Enter the IP address of the client in the "New IP Address" field or select the IP address from the "Existing LAN Clients" list and click "Add>". You will see the new IP address in the "Selected Client IP" field.

5.3.4 Anti-DoS The Anti-DOS feature prevents "**Denial of Service**" attacks that aim to disable your router by flooding it with connection requests. In this window, you can set the maximum number of connections that will be allowed from the Internet for a specified time interval for each protocol.

The Anti-DoS feature is disabled by default. To enable Anti-DoS and configure the necessary settings:

- Check the "Enable Anti-DoS" box.
- Enter the maximum number of connections that will be allowed over the LAN and Internet.
- Click "Save".

The ArtiDoS Itstature blocks Denial of Service attacks to your modern. In this pape, you can determine the maximum number of allowed connections for describe protocols over a certain time.							
		vc1					
×.		Antidos	Enabled				
TCP	Per Second 🔹		100	new connection			
UDP	Per Second 👻		100	new connection			
ICMP	Per Second .		1	new connection			
		lan-)				
V		Antidos	Enabled				
TCP	Per Second 👻		1000	new connection			
UDP	Per Second +		1000	new connection			
ICMP	Per Second +		10	new connection			
	_	_	_	Save Cancel			

To add a new rule, e them from the existin applications that port	ter rule name. To specify the LUA client that the rule will be applied, enter an IP address, or select g cliant list and then click Add. When you have the client that the rule will be applied, specify the forwarding will be applied.
Note Marine	631
LAN Interface	an-0 wWAN Interface vc1 w
SELECT CLIENT New IP Address	Selected Client IP 192 168 2.6 Add>
	Existing LAN clients
MAC ADDRES	S IF ADDRESS NAME
0011A-4855C7 0011A-4855C7 0011F:F3:98:1	100 2021022 100 2021822 100 20218622 100 20218622 100 2021862
Your modern can be servers on your LAN incoming parkets to	configured as a virtual sever and clients on the Internet can access the services such as web or FTP sing real IP addresses that are forwarded to the local IP addresses of such servers. It can forward as IP address, can be 10 hased to the service and the northannet real service and read to the northannet services and the service and the northannet man services and the northannet man services and the northannet services and the services and the northannet man services and the northannet services and the services and the northannet services and the northannet services and the services and the northannet services and the services and the northannet services and the services and the services and the services and the services and the northannet services and the services and the services and the services services and the services and the services and the services services and the services services and the services services and the services serv

On the lower half of the screen, you can enter the port forwarding rule parameters.

- In the "Application Name" field, enter the name of the application for the port forwarding rule you are creating.
- In the "TCP Ports" fields, enter the WAN and LAN TCP port numbers. (WAN and LAN port numbers are determined by the application designer and are usually the same)
- In the "UDP Ports" fields, enter the WAN and LAN UDP port numbers. (WAN and LAN port numbers are determined by the application designer and are usually the same) Click "Add>".

All the values you have entered for the application will show up in the table below. If the application for which you'd like to setup port forwarding is already on the application list to the left of the page, you can just select it and click "**Add>**". The port numbers will be filled in automatically.

Click "**Save**" after you've entered all the parameters.



After you click "**Save**", the following "**Port Forwarding**" screen will come up. Here, you will see the port forwarding rule you have defined. After checking that all the values displayed are correct, check the "**Enable Port Forwarding**" box. Then, click "**Save**".

			Port Forwarding		
			Enable Port Forwarding		
			New		
	Rule Name	Client IP	Active Applications	Activate	Configuration
	Test	192.168.2.2	Application02,Doom 3	V	Edit Delete
_	_	_	_	_	_

5.4.2 DMZ

The DeMilitarized Zone (DMZ) feature opens up all the ports of a single local network host for unrestricted access from the Internet.

On your router, DMZ is disabled by default. To enable DMZ, go to the "**DMZ**" submenu under the "**NAT**" menu of your router's Web interface. On the "DMZ Settings" screen that comes up, check the "**Enable DMZ**" check box. Specify the local IP address of the network host that you would like traffic to be forwarded to in the "**IP Address**" field either by typing it in or selecting from the list. Click "**Save**". From now on, all packets coming from the Internet to your router's WAN IP (no matter which port) will be directed to the local client with the IP address you have specified."

DMZ Settings
Demilitarized Zone (DM2) feature allows a LAN clients all pots to be accessible from the Internet To forward all internet static to a certain LAN client, select Bar Paddress from the esting client list and then click. Save To define a new LAN client, click the link named LAN Clients.
IP Address Gelet one: 00.1F F3 58:17:00 192.168.2.4 Type in: 192.168.2.10

5.5 Routing	Routing defines the rules that determine how IP packets reach their destination on the Internet. You can either define static routing where you specify the target IP addresses, and how to get to them or use RIP dynamic routing protocol which updates the routing rules automatically. To specify which routing to use and set the	5.5.2 Dinamik routing	Dynamic Routing uses RIP protocol to determine and update the routing rules automatically based on the local and remote networks connected. There are two versions of the routing protocol: RIP v1 and RIP v2. RIP v2 allows for encryption between two routers.
	necessary parameters, click on the "ROUTING" menu of your router's Web interface.		To configure Dynamic Routing go to "Dynamic Routing " under the " ROUTING " menu of your router's Web interface and enter the following information:
E E A Statia routing	To define a static monthing with some to "Ctatic Douting" under the "DOUTINO" months of		Enable RIP: Click this check box to enable dynamic routing.
5.5.1 Static routing	the Web interface. You now need to enter a destination IP and how to get to it.		 Protocol: If you would like to use RIP v2 and also have RIP v1 supported for backward compatibility then select "RIP v1 compatible"
	Destination IP: Enter the IP address of the destination		• Enable password: Check this box if you have chosen RIP v2 as the protocol an
	Netmask: Enter the Netmask for the destination IP address		vou would like to use encryption between routers.
	 Connection: Enter the interface that will be used for the data transfer. It should be set to "lan" for local IP addresses and "wan" for remote IP addresses. 		 Password: Enter a password. The same password must be used in all the othe routers.
	 Gateway: Enter the IP address of the host that can transfer the data to the "Destination IP". This can be a WAN IP or a LAN IP address depending on the connection type. 		When you use Dynamic Routing, for each of the LAN and WAN interfaces you can specify in which direction data can be sent. You can select " inward ", " outward " or " Both Directions ".
	 Metric: In this field, you can specify the number of hops (how many gateways the data needs to go through) to get to the destination IP. 		Dynamic Borden
	Static Routing On this page, you may enter the necessary destination is inder to set a static routino rule.		In order to use dynamic routing, please choose the RIP protocol version, and enter a password if it is necessary. For each interface define the direction of the routing v Enable RIP
	Destination: 10 0.0.3 Netmask: 255 255 255		Protocol: KIIP v2 -

Metric: 1

 Delete
 Connection
 Destination
 Gateway
 Netmask
 Metric

 Image: I

Connection: Ian-0 👻 Gateway: 192.168.2.1

- ck this check box to enable dynamic routing.
- would like to use RIP v2 and also have RIP v1 supported for patibility, then select "**RIP v1 compatible**".
- ord: Check this box if you have chosen RIP v2 as the protocol and to use encryption between routers.
- er a password. The same password must be used in all the other

Dyr	namic Routing			
In order to use dynamic routing, please choose the RIF interface define	protocol version, an the direction of the n	d enter a passwo outing.	ord if it is necessary. For each	
Enable RIP				
Protoco	I: RIP v2	•		
Enable password				
Passwor	test			
Interfaces	Direction			
lan-0	Both Directions			
wan-0	Both Directions			
			Savo	Cancol
			Save	Cancer

5.6 MANAGEMENT	The " MANAGEMENT " menu of your router's Web interface lets you configure local and remote management settings
5.6.1 Password Settings	Your router does not have a default password for login. To login to the Web user interface leave the "password " field blank and click "OK ". You can define a password for the Web interface or change the existing password from the "Password Settings " menu.
	When you are assigning a password to the Web interface for the first time, on the "Password Settings" screen, leave the "Current Password" field blank and enter the password you would like to use in the "New Password" and once more in the "Confirm Password" field. Click "Save". From now on, you will have to use this new password to login to the Web interface.
	Password Scitilus You can define a password to protocense alonger Current Password: New Password: Confirm Password:

If you want to change your existing password, enter the password you're currently using in the "**Current Password**" field and the new password in the "**New Pas-sword**" and "**Confirm Password**" fields, and click "**Save**".

Password Sett	ings
You can define a password to p Current Password:	otact wear interface
New Password:	
Confirm Password:	••••••

5.6.2 Remote Management

To enter the settings related to the remote management of your device, go to "Remote Management" under the "MANAGEMENT" menu.

To enable remote management of your device, click the **"Enable Remote Management**" check box.

Remote Managen	nent
On this page, you can enter retilings to manage your modern remotely. If you warded like to manage your or work of the second of the addresses or entire its IP address manually and cick Add. To manage your modern remote Management of the remote Management of the remote Management.	dem mendely from a computer on the internet, click the enable checkbox, select from a list in from any computer, click the 'Any IP' checkbox. When done, click Save.
Service	WAN
Ping	V
Telnet	
Web	
SNMP	
IP Access List: Select IP Add	iress - 🔲 Delete
New IP Address :	Add

If you check the "**Any IP**" box, your router can be managed remotely from any computer.

Remote Managem	ent
On this page, you can enter settings to manage your modem remotely. If you would like to manage your mo of pre-recorded IP addresses or enter its IP address manually and click Add. To manage	dem remotely from a computer on the Internet, click the enable checkbox, select from a list e from any computer, click the 'Any IP' checkbox. When done, click Save.
I Enable Remote Management I Any IP	
Service	WAN
Ping	₹
Teinet	
Web	
SNMP	
IP Access List: Select IP Add	ress 💌 🔄 Delete
New IP Address :	Add

If "**Any IP**" is not checked, you have to add the WAN IP address of the computer from which you would like to remotely manage your device to the "**IP Access List**". To do this, enter the WAN IP address in the "**New IP Address**" field and click the "Add" box.

Remote Manag	ement
On this page, you can enter settings to manage your modem remotely. If you would like to manage your of pre-recorded IP addresses or enter its IP address manually and click Add. To man	modem remotely from a computer on the internet, click the enable checkbox, select from a age from any computer, click the 'Any IP' checkbox. When done, click Save.
V Enable Remote Management	
I Any IP	
Service	WAN
Ping	
Telnet	
Web	
SNMP	
IP Access List : Select IP A	uddress - Delete
New IR Address : 99 224 24 6	7
New IP Address . 00.234.24.0	

After saving, the WAN IP address you have entered will appear in the **"IP Access List**". If you select this address from the list and click **"Save**", remote management will be activated for this address. If you want to remove an IP address from the list, select the address from the list, click on the **"Delete**" checkbox and then click **"Save**".

	Remote Manag	gement
In this page, you can enter settings to manage your modern re of pre-recorded IP addresses or enter its IP a	notely. If you would like to manage your iddress manually and click Add. To ma	r modem remotely from a computer on the Internet, click the enable checkbox, select from a anage from any computer, click the 'Any IP' checkbox. When done, click Save.
	📝 Enable Remote Managemen	nt
	E Any IP	
	Service Ping	WAN V
	Web	
	SNMP	
	IP Access List Select IP . New IP Address Select IP . 88 234 24	Address - Delete Address - Add

You can also specify which services will be available to the remote management computers on this page.

of pre-recorded IP addresses or enter its IP address man	ually and click Add. To ma able Remote Managemen y IP	nage from any compute	r, click the Any IP ² checkbox. When done, click Save.
	Ping Teinet Web SNMP	V V V	
i Ner	P Access List: Select IP w IP Address:	Address	ê

5.6.3 TR-069

Settings

TR-069 is an application layer protocol for remote management of end-user devices. With TR-069, all the settings that can be configured over a local area connection can be done automatically via remote Automatic Configuration Servers (ACS). There are a few simple settings to be configured to use TR-069 for automatic configuration. For these settings, go to "**TR-069 Settings**" under the "**MANAGE-MENT**" menu.

- Enable TR-069: Check this box to enable TR-069.
- URL: The ACS address the router will connect to (given to the user by the ACS provider)
- User Name: The user name to be used by the router to connect to the ACS server (assigned to the user by the ACS provider)
- **Password:** The password to be used by the router to connect to the ACS server (assigned to the user by the ACS provider)
- **Periodic Inform Interval:** the time in seconds after which the router and the ACS server will check their connection status. The default period is set to 86400 seconds for your router.
- Connection Request User Name: The user name that the ACS will use to connect to the router.
- Connection Request Password: The password that the ACS will use to connect to the router.

After entering all the values, click "Save".

TR-069 Setup				
TR-069 defines an application layer proto	ocol for remote management of end-user devices			
Enable TR-069	9			
URL	http://acs.airties.net:7547/			
Username	tr69plugfest			
Password	tr69plugfest			
Periodic Inform	. 🔽			
Periodic Inform Interval	86400			
Connection Request Username	tr69plugfest			
Connection Request Password	tr69plugfest			
		Save Cancel		

5.7 DDNS Dynamic DNS (DDNS), ensures that your hostname and IP address in the Internet name servers are always current. It's primarily used to associate a domain name with a dynamic IP address which makes it possible to access a computer with a dynamic IP address over the Internet. It also allows you to run a server on a computer with a dynamic IP address.

5.7.1 DDNS Settings

To configure the DDNS settings of your router, go to "**DDNS Settings**" under the "**DDNS**" menu of the Web interface. On the "**DDNS Settings**" screen that comes up, you can see the current DDNS account information. To enter a new DDNS account, click "**New**".

		DDNS Settings		
		Enable DDNS		
		New		
DDNS Host Name	DDNS Service Name	DDNS Status	Activate	Configuration
			_	

To use the Dynamic DNS feature, you need to setup an account with a DDNS service provider. On the screen that comes up, select a DDNS service provider and enter your account information (Hostname, Username, Password). Click "Save" after you have filled in the necessary fields.

DDNS Service Name	dyndns.org 👻	
Hostname	ugur.dynds.org	
User name :	ugurd	
Password .	123450	

Clicking "Save" will take you to the "DDNS Settings" screen again. Here you can see the account information you have entered and account status, and if you have more than one DDNS service entry, you can change the active account. You can also edit or delete the DDNS accounts you have previously entered.

To enable DDNS, check the "Enable DDNS" box and click "Save".

Image: Construction DDNS Host Name DDNS Status Activate Configuration ugur.dynds.org igninicang Image: Configuration Image: Configuration			DDNS Settings		
Iterr DDNS Host Name DDNS Service DDNS Status Activate Configuration ugur.dynds.org V Edit Delete			V Enable DDNS		
DDNS Host Name DDNS Service DDNS Status Activate Configuration Ugur.dynds.org V Edit Delete		DDNC Camilan	New		
	DDNS Host Name ugur.dynds.org	Name dyndns.org	DDNS Status	Activate	Configuration Edit Delete

5.8 Tools

On this page, you can restart your router, reset it to factory defaults, backup your router's current configuration or restore from a previous backup. To get to the **"Tools"** screen, select **"TOOLS"** from the main menu of the Web interface.

- The "**Restart**" button restarts your router remotely. During this operation, your connection to the router will be lost. You can reconnect after the router comes back up.
- The "Restore Factory Defaults" button allows you to reset your router back to factory defaults remotely. This will clear all the current settings on your router.
- "Backup Config" lets you save the current settings of your router onto your computer. When you click the "Backup Config" button, your router will create a file called "config.bin" to be saved on your computer. You can restore this configuration later using the "Restore Config" button.



 "Restore Config" lets you restore a previously saved configuration onto your router Click the "Browse" button to locate the config.bin file that was previously saved, and then press the "Restore Config" button to restore your settings from this file onto your router.

	Tools	
Restart	Click this button to restart the system. Your connection to the modern will be lost and then restored after a few seconds.	
Restore Factory Defaults	Click this button to restore the factory default settings of the modern. Your connection to the modern will be lost and then restored after a few seconds.	Choose file
Backup Config	Click this button to save your config to your computer. You may restore your current settings later by choosing the saved config file and pressing the button below.	O S I Desktop >
Restore Config	Browse	Favorite Links Name Size Documents Docktop Desktop
		Recent Places Backup-(200

5.8.1 Firmware

Upgrade

In order to update the firmware running on the router, go to "**Firmware Upgrade**" under the "**TOOLS**" menu. Click "**Browse**" and locate the most recent router firmware file on your computer in the pop-up window that appears. (You can download the most recent firmware file from the AirTies website www.airties.com). Then click "Upgrade".

Firmware Upgrade	
To update the running firmware on the modern, click the Browse button and then find the most recent firmware file in the window that will pop up. (You can get the most recent firmware from http://www.atfies.com) Then citry incide in them Select File:	

After the firmware is successfully installed, the system will restart automatically. Therefore, connection to the device will be lost. You will need to reconnect if you would like to reconfigure any settings. Your router must stay ON during the upgrade.

5.8.2 Time Settings Your router gets the current time and date from Internet time servers using the SNTP protocol. Default factory settings include some time servers. To change the time servers used by your router go to "Time Settings" under the "TOOLS" menu of the Web interface. In the "Time Server (SNTP)" window that comes up, enter the time server information and click "Save".

Time Server (SNTP)					
Yourdevice updates the date via Network Time Protocol (NTP) by using NTPservers related to N	in the Internet. Some time servers are entered as factory defaults. In order to change the configurations ITP, this page should be used.				
Enable Time Server					
Primary Time Server:	europe.pool.ntp.org				
Secondary Time Server:	pool.ntp.org				
Tertiary Time Server:	time.windows.com				
Update Interval:	1440 Minutes				
Time Zone:	(GMT+02:00) Athens, Istanbul, Cairo, Harare, Jerusalem 👻				
Daylight Saving:	₹				
	Save				

5.9 REPORTS

The "**REPORTS**" menu displays information about the main characteristics of your router such as ADSL Status and Statistics, Product Information and Software Versions.



5.9.1 System Logs

The "System Logs" under the "REPORTS" menu displays detailed system logs about system activity and the applcations that were active since the router was last started.

System Logs
Kernel and application logs are printed here.
>>> Jan 102:00 12 ASP_JIANAGER GENERIC (bcads)crit ADSLCounters Couldn't open file/variasdiADSLCounters to >>> Jan 102:00 14 ASP_VERNEL KERNEL (user)aint Jammir (m.module) called >>> Jan 102:00 14 ASP_VERNEL KERNEL (user)aint Johanny can think sociat >>> Jan 102:00 14 ASP_VERNEL KERNEL (user)aint Johanny can think sociat >>> Jan 102:00 14 ASP_VERNEL KERNEL (user)aint Johanny can think microid (intermed.)

5.9.2 Log Settings

"Log Settings" allows you to set log detail levels. You can also specify a remote logging destination.

Log Settings				
You can select i	og level and define a	remote logging l	location on this page.	
	Application Name:	Log Level:		
	tmrmgr-0	-	•	
	logger-0	Critical •		
dsI-0		Critical •	•	
	pvc-0	Critical •	•	
	rfc2684-0	Critical -		
	routed-0	Critical -	•	
	resolver-0	Critical •	•	
adsicounter-0		Critical •	•	
	sntp-0	Critical •	•	
dhcpc-0		Critical •	•	
	Set All	-	•	
🗹 Syslog Enabl	ed Sys	log Log Level De	ebug 👻	
Kernel Log Enabled Kernel Log Level Dobug				
🕅 Remote Log Enz	ibled IP Address:		Port:	
Save Cancel				

6 TECHNICAL PROPERTIES

- ADSL properties: G.992.1 Annex A (G.DMT), G.992.2 (G.Lite), G.992.3 (ADSL2), G992.4 (G.Lite.bis), G.992.5 (ADSL2+),Rate Adaptive DSL (RADSL), READSL, Traffic shaping UBR/CBR, OAM (I.610)
 - Connection protocols: PPPoE, PPPoA, RFC1483 Bridging, RFC1483 Routing, classical IP over ATM, PAP/CHAP, RFC 2364 PPP over AAL5, RFC2366 Multicast over ATM
 - · Wireless transmit power: Max 16 dBm EIRP
 - Wireless security options: WPA2, WPA, WEP, wireless MAC address filtering, SSID hiding
 - Frequency range: ETSI 2400MHz 2483.5MHz (13 channels with 3 non-overlapping), 20/40MHz channel bandwidth
 - Router and Firewall: Anti-DoS SPI firewall; IP and MAC address filtering; URL filtering; Port forwarding; DMZ; Static Routing, RIPv1, RIPv2 routing; DNS Proxy; DHCP server and client; NAT/NAPT; PPP (PAP/CHAP/MSCHAP), IGMPv1/v2*
 - UPnP (Universal Plug and Play)
 - Reset button to return the router to factory settings
 - Operating voltage: 100V AC 240V AC
 - Cabling: RJ-45 (Ethernet), RJ-11 (ADSL)
 - Ports: ADSL, Power (15V DC), 4 x 10/100 Ethernet(RJ-45, auto MDI/MDIX), 1xUSB Host
 - LEDs: Power, Internet, ADSL, Ethernet 1-4, USB, Wireless
 - Certificates: CE

* Features to be added with a firmware upgrade

 7 PHYSICAL
 Dimensions: 255mm x170mm x 33mm

 CHARACTERISTICS
 Weight: 350 g

 Power: 15Volt DC, 1.2A
 Operating Voltage: 100V - 240V AC

 Operating Temperature: 0°C ~ 40°C
 Storage Temperature: -40°C ~ 70°C

 Humidity %10 - %90: non-condensing
 Dimensions: 255mm x170mm x 33mm



7/24 people support 801 100 0911



Three year warranty



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• AirTies

www.airties.com