



**MODEL NO:** I1-4PWIFI-01

**SPEC**

# **SPECIFICATION**

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## **PRODUCT:**

4-Ethernet Ports Router & WLAN  
(802.11n 1x1) ADSL2/2+

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## **1 PRODUCT OVERVIEW**

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### **1.1 Introduction**

**i1-4PWIFI-01** is a powerful ADSL product, provide stable and secure Internet access for users. It has high performance, standard-based and existence together with general line. It supports upload transmission speed up to 1Mbps and download speed up to 8 Mbps (24Mbps for ADSL2+). The setting of the ADSL2/2+ is flexible and convenient.

i1-4PWIFI-01 has 4-ethernet ports, and supports IEEE 802.11b/g/n. User's terminal, such as computer, ipad, iphone, can connect to i1-4PWIFI-01 by Ethernet cable, either by Wireless, users could enjoy 150Mbps link speed steadily.

In security it supports all-user of the Wireless Transfers Encrypt Protocol. In function, it supported 8 PVCs; powerful router function; Diagnosis Function; Multicast Function; PPPoE Function; Monitor software; Real-time listening the status of the network connection.

In manipulation, it provides one convenient, friendly configuration UI; In software maintenance, it may remote upgrade and remote management; In compatibility, it is compatible to popular DSLAM absolutely.

It can carry out VoD, FTP, Downloading files more quickly than traditional MODEM. Moreover, low cost which it brings also is that we are glad to see. It is the best choice of telecommuting、 mini-type office and family.



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## **1.2 Product Key Feature**

1. Support IEEE 802.11b/g/n, Wireless Rate achieve 150Mbps.
2. Support ANSI T1.413 Issue 2; ITU G.992.1 (G.dmt) Annex A,C; ITU G.992.2 (G.lite); ITU G.992.3 ADSL2 (G.dmt.bis); ITU G.992.4 ADSL (G.lite.bis); ITU G.992.5 ADSL2+; Extended Reach(READSL2), Annex M
3. i1-4PWIFI-01 is not only a powerful ADSL modem, but a strong local network router with features of DHCP, DNS and NAPT.
4. Downstream up to 8M for ADSL,24 Mbps for ADSL2+; Upstream up to 1Mbps,For ANNEX M Upstream up to 2.4Mbps
5. Routing from WAN to LAN
6. Basic Gateway features such as NAT, DHCP, and DNS. Etc, to provide the capability to construct private network.
7. Firewall
8. IP filter, IP forwarding, IPOos
9. Web-based GUI
10. Support 8 PVCs
11. ATM management features
12. Parent Control



## 2 HARDWARE ARCHITECTURE

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### 2.1 Hardware Interfaces

- One RJ-11 port for connection to WAN (for ADSL Line)
- Four RJ-45 ports for 9/90 Base-T Ethernet LAN connection to PC
- One Power switch
- One Reset button to default setting
- One Wireless antenna (internal or external)
- One Power jack

### 2.2 Main Chipset Information

Vendor	Model # & Edition
Realtek	8676S+8188ER

### 2.3 LED Definitions

Lable	Display Color	Meaning
Power	Off	Power off or failure
	Solid Green	Power on, normal operation
DSL	Solid Green	DSL good sync
	Off	Modem power off
	Blink Green	DSL attempting sync
Internet	Off	Modem in bridged mode or no connection
	Solid Green	IP connected and no traffic detected
	Blink Green	IP connected and IP Traffic is passing through the device(either direction)
LAN1~LAN4	Off	No activity, modem power off, no cable or no powered device connected to the associated port.
	Solid Green	Powered device connected to the associated port
	Blink Green	LAN activity present
WLAN	Off	Wireless function is closed or failure
	Solid Green	Wireless function is OK
	Blink Green	Data transmitting or receiving



### **3 SOFTWARE FEATURES**

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i1-4PWIFI-01 provides the following features:

<b>DSL Standards</b>	
1	ANSI T1.413 issue 2
2	ITU-T G992.1 with Annex A (G.dmt)
3	ITU-T G.992.2 Annex A (G.lite).
4	ITU-T G.992.3 Annex A, L, M (ADSL2)
5	ITU-T G.992.5 Annex A, M (ADSL2+)
6	ITU-T G 994.1
7	ITU-T G.997.1
8	ETSI ETR-328
<b>Protocol &amp; Features Supported</b>	
1	RFC 2684 IP Bridging
2	RFC 2684 IP Routing
3	RFC 2516, PPPoE (Point over Ethernet) over ATM
4	RFC 2364 PPPoA
5	Support 8 PVCs
6	QoS based on PVC
7	Routing: RIP v1, RIP v2
8	Support Static Routing
9	NAT & PAT (RFC 1631)
10	DMZ support
11	NAT with Application Layer Gateway
12	IP Routing: TCP, UDP, ICMP, ARP
13	DHCP Client/Server for IP management
14	DHCP Relay



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15	IP multicasting IGMP v1/v2
16	Pass through/open/redirection and port mapping
17	The Range of private IP support 192.168.1.2 to 192.168.1.254
18	QoS mechanism support for mapping of PVC with different traffic classes
19	HTTP (web based) for firmware upgrade & configuration
20	IP filtering & raw filtering
21	IGMP Snooping support
22	IEEE 802.1D Transparent Bridging
23	DNS relay
<b>Firewall Features</b>	
1	Source IP address, Destination IP address, Source port addresses, Source MAC address, Destination Port addresses
2	Stateful packet inspection
3	Filtering on Application basis
4	Filtering on port basis
<b>Virtual private network support</b>	
1	Standard (IPSec, L2TP, PPTP) pass through
2	Complativity with other IPSec VPN gateways
3	Supports multiple simultaneous login via FTP/www/Telnet
<b>Diagnostic</b>	
1	support diagnostic function
<b>Management features &amp; functionalities</b>	
1	SNMP V2C
2	Remote upgrade
3	TFTP/FTP upgrade
4	Support TR069
5	Telnet remote access support



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6	support Web based configuration
7	Support for backup & restore configuration to/from PC
8	Support TR-64 for LAN management
9	Shall support DHCP server for IP management
<b>Quality of Service requirement</b>	
1	Port based QoS
2	802.1bit marking
<b>ATM Attributes, functionalities and status management</b>	
1	ATM Cell over AAL5
2	OAM F4/F5 loop-back
3	Traffic Classes support of UBR, CBR, VBR-nrt and VBR-r
4	VPI range (0-255) and VCI range (1-65535)
<b>General Specification &amp; Operational requirement</b>	
1	Support in Windows 98, Windows 2000, Windows XP, Windows Vista, Linux, Apple and Mac OS for Ethernet and USB interfaces
2	System Log
3	Password & user ID may have special character
4	IPV4/ipv6
<b>Applicable for WiFi Modem</b>	
1	Wireless Standard and feature - 802.11g/802.11b/802.11n
2	64/128 bit WEP support
3	MAC association control
4	WPA with pre shared keys
5	Support Multiple SSIDs (please specify)
6	Dynamic WEP Key
7	Support for WPA,WPA2, WPA PSK, TKIP

\* According to the specific requirements of customers





## **4 SPECIFICATIONS AND STANDARDS**

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### **4.1 Mechanical**

The Mercury has the following properties:

PCB Dimension: 80mm\*90mm

Weight: 450g

ID idea (slightly modified already)

### **4.2 Electrical**

#### **4.2.1 Power Requirements:**

i1-4PWIFI-01 uses an AC adaptor that can supply DC voltages.

AC power adaptor: 90VAC-240VAC

DC voltage: 12V, 0.5A

#### **4.2.2 Heat & Power Dissipation**

Power: < 4W

#### **4.2.3 Environmental**

i1-4PWIFI-01 complies with the following standards:

- Temperature:
  - 0 to 50 degrees C (Standard Operating)
  - -20 to 70 degrees C (Non-operating)
- Humidity:
  - 9% to 90% (Non-condensing, Standard Operating)
  - 5% to 95% (Non-condensing, Non-operating)
- Vibration: IEC 68-2-36, IEC 68-2-6
- Shock: IEC 68-2-29
- Drop: IEC 68-2-3