

Product Specification

Internet Fiber Router

FRT-401
FRT-401S15
FRT-405

Version 1.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	2010/3/19	James Yang	Initial release

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PRODUCT DESCRIPTION

With growing network services such as HDTV, IPTV, voice-over-IP (VoIP) and Multimedia broadband applications, and the demand of bandwidth rises quickly. The current Broadband environment has not already accorded with needing; the **FTTH** (fiber-to-the-home) would be the most promising NGN (Next Generation Networking) application to fulfill the demand.

The PLANET Internet Fiber Router, FRT-40x, provides office and residential users the ideal solution for sharing a high-speed fiber Internet connection and four-10/100Mbps Fast Ethernet backbone. The Fiber Router is a perfect FTTH Digital Home Router which can provide very high performance access to Internet, both downstream and upstream up to 100Mbps through the fiber interface. The PLANET FRT-40x supports several common optical connectors for WAN connection, such as **100BASE-BX, 100BASE-LX, 100BASE-FX and Small Form Factor Pluggable (SFP)**. The Fiber Router can be implemented easily for optical fiber deployment.

The PLANET Fiber Router provides **QoS** features to make the network services smooth. Traffic priority can be assigned by the router to guarantee some important and specific transmissions, especially for real-time streaming multimedia applications such as the **on-line gaming, VoIP, and IPTV** to keep the bandwidth usage smoothly. Furthermore, the Fiber Router not only provides basic router functions such as DHCP server, Virtual Server, DMZ, and UPnP, but also provides full firewall functions including Network Address Translation (NAT), IP / Port / MAC Filtering and Content Filtering. It serves as an Internet firewall to protect your network from being accessed by unauthorized users.

PRODUCT FEATURES

1. **Fiber Interface** support
2. Complies with IEEE 802.3, IEEE 802.3u 10/100Base-TX, 100Base-FX standard
3. Long distance connection based on optical fiber transceiver
4. Choice of fiber-connector from SC, WDM and SFP, multi-mode / single-mode fiber / 100Base SFP
5. Co-work with PLANET 100Base-FX Media Conversion and MFB-Series Transceiver
6. QoS support
7. 802.1Q VLAN support
8. Supports **FTTH / IPTV** applications
9. Built-in 4-port 10/100 Mbps Ethernet switch
10. Router / Bridge mode support
11. SPI Firewall security for Anti-DoS Prevention
12. Supports IP / Port / MAC Filtering and Content Filtering
13. TS-1000 and 802.3ah OAM support
14. Supports SNMP v1/v2c

PRODUCT SPECIFICATION

MAIN COMPONENT

CPU chipset: Ralink RT3052F

SDRAM: 32MB

Flash: 4MB

FUNCTIONAL SPECIFICATIONS

Product		Internet Fiber Router		
Model		FRT-401	FRT-401S15	FRT-405
Ports	WAN	1 x 100Base-FX port		
	LAN	4 x 10/100Base-TX port		
Optic Interface	Connector	SC		SFP
	Mode	Multi-mode	Single-mode	Vary on module
	Distance	2km	15km	Vary on module
Optic wavelength		850nm	1310nm	-
Launch Power(dBm)	Max.	-14	-7	-
	Min.	-19.0	-20	-
Receive Sensitivity		-34.5	-28	-
Maximum Input power		-14	-8	-
Fiber-optic cable		<ul style="list-style-type: none"> ▪ 50/125µm or 62.5/125µm multi-mode fiber cable, up to 2km. ▪ 9/125µm single-mode cable, provide long distance for 15/20/35/50km or longer (vary on SFP module) 		
LED Indicators		PWR, Fiber, LAN1-4		
Button		1 x RESET button		
Software				
Max. Sessions		4096		
Protocol / Feature		Router and Bridge mode Static Routing and RIPv1/2 DMZ and Virtual Server 802.1D 802.1Q VLAN support QoS SNTP DHCP Server / Client IGMP Proxy and DNS Proxy Universal Plug and Play (UPnP) Compliant DDNS (Dynamic Domain Name System)		
VPN		VPN Pass-Through		
Security		Built-in NAT Firewall MAC / IP/ Port Filtering Content Filtering SPI Firewall support Password protection for system management		
Management		Web-based configuration Available Syslog support TR-069* SNMP v1/v2c TS-1000 and 802.3ah OAM support		
Environment Specification				
Dimension (W x D x H)		186 x 143 x 35mm		
Power		12V DC, 1A		
Temperature / Humidity		Operating: 0~50 degree C, 5%~ 90% (non-condensing), Storage: -10~70 degree C, 0~95% (non-condensing)		
Emission		FCC, CE		

* Feature Enhance by Future FW upgradeable.

PHYSICAL SPECIFICATION

Dimensions

186 x 143 x 35mm (W x D x H)

Weight

330g

Front Panel (FRT-401 / FRT-401S15)



Front Panel (FRT-405)

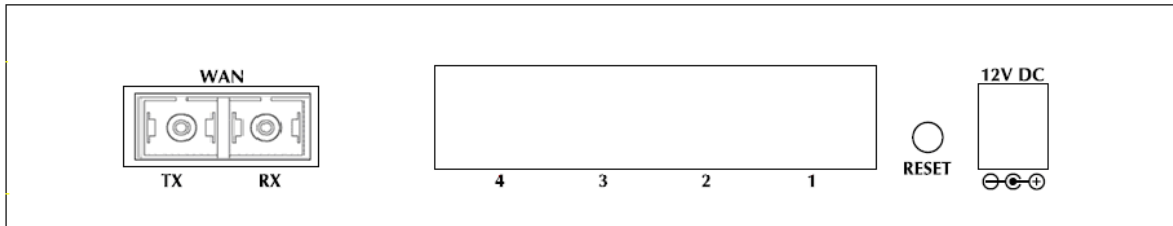


Front Panel LED definition

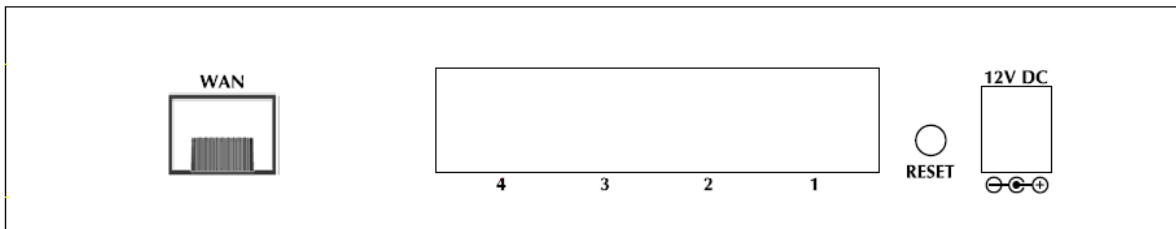
LED	State	Description
PWR	ON	When the router is powered on, and in ready state.
	OFF	When the router is powered off.
WAN	Flashing	Data is being transmitted or received via the fiber connection.
	ON	The optical fiber connection connected successfully.
LAN1-4	Flashing	Data is being transmitted or received via the corresponding LAN port.
	ON	The port is up.

Rear Panel

For FRT-401 / FRT-401S15



For FRT-405



Rear Panel Port and Button Definition

Connector	Description
POWER	Power connector with 12V DC 1 A
RESET	Press more than 3 seconds for reset to factory default setting.
LAN (1-4)	Router is successfully connected to a device through the corresponding port (1, 2, 3, or 4). If the LED light of LNK/ACT is flashing, the Router is actively sending or receiving data over that port.

ENVIRONMENTAL SPECIFICATION

Operating

Temperature: 0~50 Degree C
Relative Humidity: 5~90 % (non-condensing)

Storage

Temperature: -10~70 Degree C
Relative Humidity: 0~95 % (non-condensing)

ELECTRICAL SPECIFICATION

Input Voltage: DC 12V, 1A.

REGULATORY COMPLIANCE

FCC Part 15 Class B
CE Class B

BASIC PACKAGING

- FRT-401 / FRT-401S15 / FRT-405 Unit x 1
- Power Adapter x 1
- Quick Installation Guide x 1
- User's Manual CD x 1

PACKAGING INFORMATION

- **Dimension**
334 x 180 x 72 mm (L x W x H)
- **Weight**
700g (gross weight)