Internet Fiber Router

With growing network services such as HDTV, IPTV, voice-over-IP (VoIP) and Multimedia broadband applications, 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 series, provides office and residential users the ideal solution for sharing a high-speed fiber Internet connection and four 10/100Mbps Fast Ethernet backbone. The FRT-40x series 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. For WAN connection, the FRT-40x series supports several common optical connectors including **100Base-BX**, **100Base-LX**, **100Base-FX and Small Form Factor Pluggable (SFP)**. The Fiber Router can be implemented easily for optical fiber deployment.

The FRT-40x series provides **QoS** functions to enable smooth network services. 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 FRT-40x series not only provides basic router functions like DHCP server, Virtual Server, DMZ, and UPnP, but also features 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.
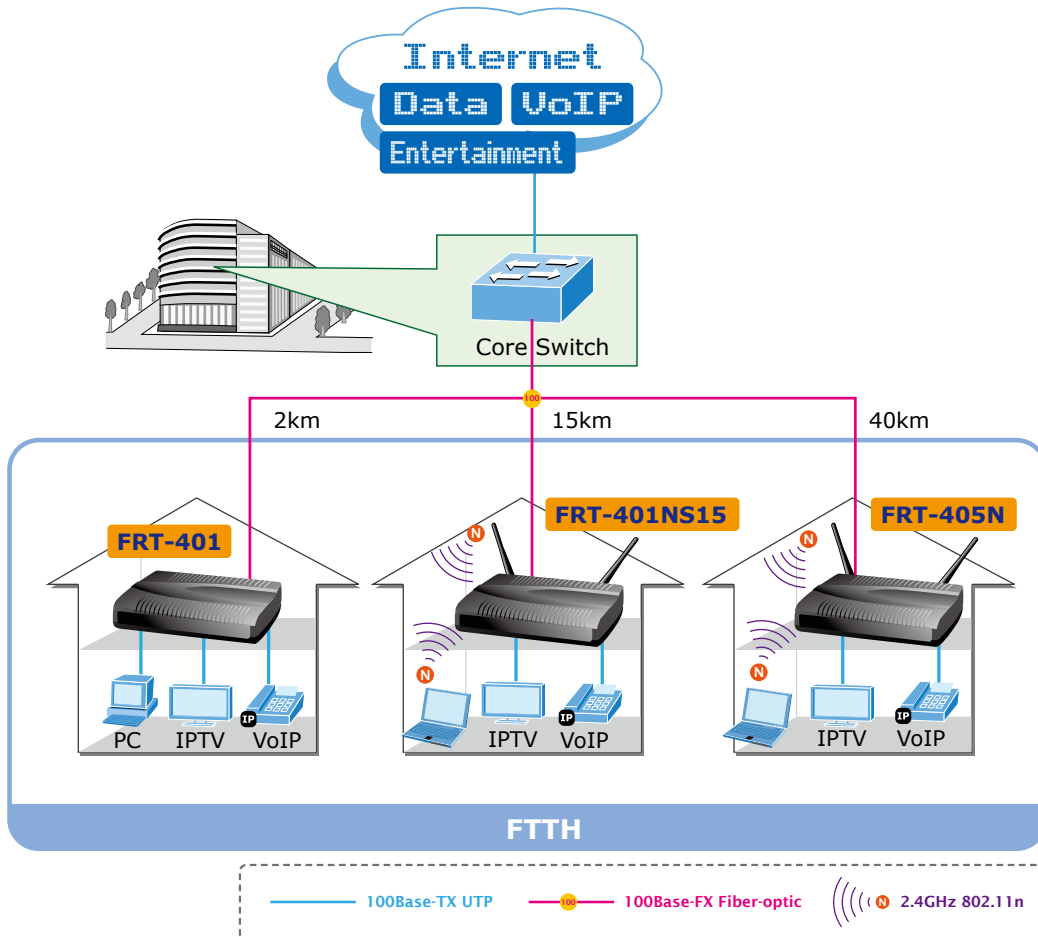
KEY FEATURES

- **Fiber Interface** for **FTTH / IPTV** applications

- Complies with IEEE 802.3, IEEE 802.3u 10/100Base-TX, 100Base-FX standard

- Long distance connection based on optical fiber transceiver

- Various choices of fiber-connector from SC, WDM and SFP, multi-mode / single-mode fiber / 100Base SFP

- Co-work with PLANET 100Base-FX Media Conversion and MFB-Series Transceiver

- **QoS** support

- **802.1Q VLAN** support

- Built-in 4-Port 10/100 Mbps Ethernet switch

- Router / Bridge mode support

- **SPI Firewall** security for Anti-DoS Prevention

- IP / Port / MAC Filtering and Content Filtering

- **TS-1000** and **802.3ah OAM** support

- Supports **SNMP v1/v2c**

APPLICATIONS

Internet Connection with Fiber Optic

The FRT-40x series is the perfect solution to connect a small group of PCs to a high-speed Internet connection allowing multiple users to access the Internet simultaneously. With built-in 100Base-FX fiber interface, the FRT-40x series supports WAN distance up to 15~60 Km by working with different types of optic fiber connectors. The FRT-40x is the ideal solution for FTTH (Fiber-to-the-home) applications. It can handle multiple high-throughput services such as IPTV, **on-line gaming**, **VoIP**, **Internet** access and keep the bandwidth usage smoothly. The FRT-40x series also incorporates a 4-Port 10/100Base-TX switching hub, which makes it easily create or extend your LAN and prevents the attacks from Internet.

SPECIFICATION

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		• 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 (very 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 Firmware upgradeable.

ORDERING INFORMATION

FRT-401	Internet Fiber Router (SC, MM) with 4-port switch - 2km
FRT-401S15	Internet Fiber Router (SC, SM) with 4-port switch - 15km
FRT-405	Internet Fiber Router (SFP slot) with 4-port switch

ACCESSORIES

MFB-F20	SFP-Port 100Base-FX Transceiver (1310nm) - 20KM
MFB-F40	SFP-Port 100Base-FX Transceiver (1310nm) - 40KM
MFB-F60	SFP-Port 100Base-FX Transceiver (1310nm) - 60KM
MFB-FA20	SFP-Port 100Base-BX Transceiver (WDM,TX:1310nm) -20KM
MFB-FB20	SFP-Port 100Base-BX Transceiver (WDM,TX:1550nm) -20KM
MFB-FX	SFP-Port 100Base-FX Transceiver (1310nm) -2KM

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