

FWRIII-3105SFP-CW-N-DR Series Residential Gateway Solution



4 ports 10/100/1000Mbps RJ45 + 1 Combo uplink port
10/100/1000Mbps RJ-45 and 100/1000Mbps SFP slot
Gigabit Ethernet Residential Gateway



Features

- **NAT/Bridge Hybrid Mode**
Support NAT/Bridged Hybrid mode. The NAT/Bridged Hybrid mode can optimize the utilization of limited IP resources and the performance for services which require transparent bridging.
- **Dual Rate with Auto-Sensing Function**
Dual Rate CPE Switch with auto-sensing function can automatically adjust to the speed of the slide-in fiber transceiver. This can save the cost when upgrading the device from 100Mbps to 1000Mbps.
- **Flexible Auto Provision Schemes**
Provide either DHCP auto provisioning or TP-069 to fulfill the choice of deployment scale and reduce the OPEX of device maintenance for service providers .
- **IGMP Snooping v1/v2**
Support IGMP snooping v1/v2 to facilitate IPTV service deployment.
- **Combo WAN Port with Auto-Detection Technology**
Support both open SFP slot and TP WAN port with auto-detection function to fit in various kinds of deployment and save manual setting effort
- **Smart Lightning Control**
LED indicators for link activities and status can be quickly switched ON/OFF by pressing a control button. This Smart Lightning Control can turn off LED blinking indicators specially at night for household users to prevent light pollution.
- **Optional Cable Tray**
This is a flexible option for FTTH installation. Users can keep excessive fiber inside the cable tray to have extra protection for the sensitive fiber.

Description


Connection Technology System (CTS) FWRIII-3105SFP-CW-N-DR series solution is a Web & SNMP managed fiber optical residential gateway which is designed to meet he FTTH deployment requirements for delivering high speed internet access, IPTV services.FWRIII-3105SFP-CW-N-DR provides one (open SFP slot / TP) combo WAN port for broadband internet connections, four 10/100/1000 base-T RJ-45 ports for LAN application as well as IEEE 802.11n WiFi module for wireless access application.


Aimed at the operators or services providers who deliver the multiple services for residential users, the FWRIII-3105SFP-CW-N-DR allows the services in a Fiber-to-the-home deployed infrastructure in a single device.The four 10/100/1000Base-T RJ-45 ports and IEEE 802.11n WiFi connection enable userw to connect PC or laptop for internet applications such as web surfing, E-mail, file upload/download and online gaming as well as connected a set top box for provisioned video applications like IPTV, VoD, E-learning etc.

The Combo WAN port of FWRIII-3105SFP-CW-N-DR can support both short & long-distance connections for the deployments to the household, apartment or campus. The device management is based on Web and SNMP interfaces to fulfill the requirement of mass deployments, the device also supports auto-provisioning mechanism to allow the operators or service providers to manage the device configuration automatically and dynamically. Consequently, it can help saving the OPEX (operational cost) for the operators or service providers.

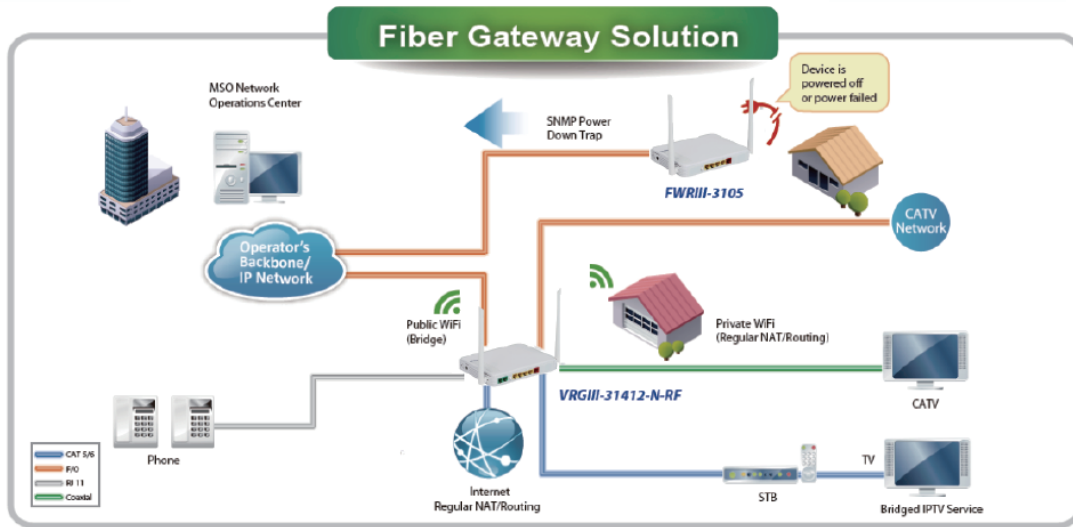
Target Applications

- SOHO & Residential Gateway which requires network management for FTTH service deployment.

**  For Specific Model. Please check order information for details.

*  Customization of SW may be required for the interoperability of the ACS and FWRIII-3105-N-DR.

Application Diagram



Specification

Interface

LAN: 10/100/1000Base-T RJ-45 x 4
 WAN: 100/1000Base-X SFP or 10/100/1000Base-T RJ-45 x 1
 IEEE 802.11n WiFi

Standards

IEEE 802.3 10Base-T
 IEEE 802.3u 100Base-TX/FX
 IEEE 802.3ab 1000Base-T
 IEEE 802.3z 1000Base-X
 IEEE 802.1p Priority
 IEEE 802.1q Tag VLAN

H/W Specification

Store and Forward Switching Mechanism
 Auto Crossover for MDI/MDI-X in TP Port
 Auto Negotiation in TP Port
 Half/Full Duplex Mode Operation
 9K Bytes Jumbo Frame
 1K MAC Address Table
 Priority Queues: 4 Queues

Forward/Filter Rate

10M: 14,880/14,880pps
 100M: 148,800/148,800pps
 1000M: 1,488,000/1,488,000pps

LED

Power, Status, WAN, LAN1-4
 Wi-Fi
 WPS
 LED ON/OFF Control Button

Layer 2 Switching

PPPoE Client
 IEEE802.1p Priority/802.1Q Tag VLAN
 QoS
 Bandwidth Control
 IGMP Snooping v1/v2

Layer Routing

NAT/Bridge Hybrid Mode
 RIP v1/v2*
 DHCP Client & Server
 DNS Client & DDNS
 DMZ Host
 IGMP Proxy

Security

Firewall
 Packet/URL Filter
 VPN Pass Through (IPSec, PPTP, L2TP)
 Attack Detection & Blocking
 UPnP

WiFi

Wireless AP Mode
 IEEE 802.11n
 WiFi Protected Setup(WPS)
 64/128-bit WEP, WPA, WPA2 Data Encryption
 MAC Access Control for WiFi Link

Network Management

Web Management
 SNMP v1/v2
 FTP Firmware Upgrade
 TR-069**
 TR-098
 TR-104
 Event Syslog
 Remote FTP Upgrade
 Power Down Trap

Power Requirement

External Power Adaptor
 AC Input: 100VAC~240VAC
 Frequency Range: 50~60Hz
 DC Output Rating: 12V/1.5A

Environmental Condition

Operation: 0° ~ 50°C
 Storage Temperature: -20° ~ 60°C
 Humidity: 5% ~ 90%, Non-Condensing

Dimension & Weight

Active Device:
 - Size: 180x130x30mm (WxDxH)
 - Weight: 0.75Kg
 With Cable Management:
 -Size: 180x180x42mm (WxDxH)

EMC/Safety

FCC Class A, CE

*This function will be available in the firmware released in the future.

**Firmware upgraded by TR-069 is available in the current firmware. The other TR-069 function will be available in the firmware released in the future.

Order Information

FWRIII-3105-N-DR

Model	WAN			LAN	WLAN	VoIP	CATV RF	
	Speed	Type	Distance	Speed		FXS Port	Fiber	Coaxial
FWRIII-3105SFP-CW-N-DR	100/1000Mbps	SFP	-	10/100/1000Mbps TP x 4	802.11 n	-	-	-
	10/100/1000Mbps	TP						
FWRIII-3105SFP-CW-N-DR-RF	100/1000Mbps	SFP	-	10/100/1000Mbps TP x 4	802.11 n	-	1	1
	10/100/1000Mbps	TP						

SFP-31-DR

MODEL	FIBER PORT					
	Speed	Type	Connector	Distance	Wavelength	Temperature
SFP-31FC-DR	100Mbps/1000Mbps	MM	LC	2KM/550M	1310nm	0°C to 70°C
SFP-31FC(SM-10)-DR	100Mbps/1000Mbps	SM	LC	10KM	1310nm	0°C to 70°C
SFP-31W2A(SM-10)-DR	100Mbps/1000Mbps	WDM	LC	10KM	TX:1310nm RX:1550nm	0°C to 70°C
SFP-31W2B(SM-10)-DR	100Mbps/1000Mbps	WDM	LC	10KM	TX:1550nm RX:1310nm	0°C to 70°C

SFP-30

MODEL	COPPER PORT				
	Speed	Type	Connector	Distance	Temperature
SFP-30TP	1000Mbps	-	RJ-45	100M	0°C to 70°C

SFP-31

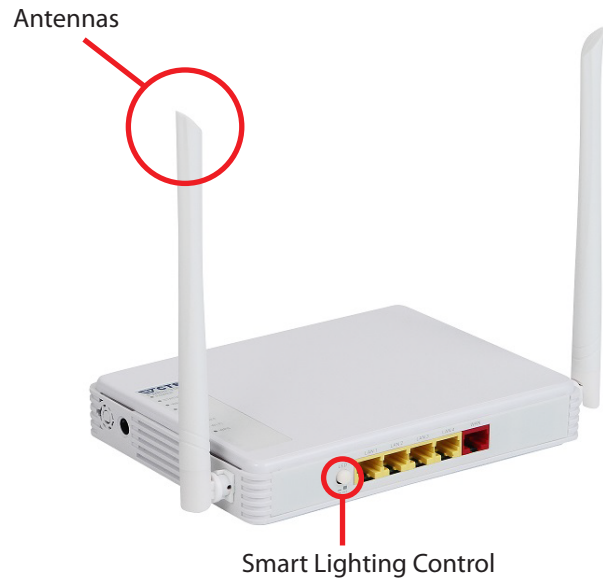
MODEL	FIBER PORT					
	Speed	Type	Connector	Distance	Wavelength	Temperature
SFP-31FC	1000Mbps	MM	LC	550M	850nm	0°C to 70°C
SFP-31FC(SM-10/20/40/50/80/100/120)	1000Mbps	SM	LC	10/20/40/50/80/100/120KM	1310nm/1310nm/1310nm/1550nm/1550nm/1550nm/1550nm	0°C to 70°C
SFP-31W2A(SM-10/20/40/80)	1000Mbps	WDM	LC	10/20/40/80KM	TX:1310nm/1310nm/1310nm/1510nm RX:1550nm/1550nm/1550nm/1570nm	0°C to 70°C
SFP-31W2B(SM-10/20/40/80)	1000Mbps	WDM	LC	10/20/40/80KM	TX:1550nm/1550nm/1550nm/1570nm RX:1310nm/1310nm/1310nm/1510nm	0°C to 70°C
SFP-31FC-C11	1000Mbps	CWDM	LC	80KM	1470nm	0°C to 70°C
SFP-31FC-C12	1000Mbps	CWDM	LC	80KM	1490nm	0°C to 70°C
SFP-31FC-C13	1000Mbps	CWDM	LC	80KM	1510nm	0°C to 70°C
SFP-31FC-C14	1000Mbps	CWDM	LC	80KM	1530nm	0°C to 70°C
SFP-31FC-C15	1000Mbps	CWDM	LC	80KM	1550nm	0°C to 70°C
SFP-31FC-C16	1000Mbps	CWDM	LC	80KM	1570nm	0°C to 70°C
SFP-31FC-C17	1000Mbps	CWDM	LC	80KM	1590nm	0°C to 70°C
SFP-31FC-C18	1000Mbps	CWDM	LC	80KM	1610nm	0°C to 70°C

Build-In Cable Tray Overview

With Optional Cable Tray (HES-FCT-S)



Without Cable Tray



*This is an outline of FWR Series and does not represent specific product.