

# FWR5-3105SFP-CW-AC-DR Series

## Triple Play Gateway



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### Features

- 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 both DHCP auto provision and TR-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 the IPTV service deployment.
- Combo WAN Port Technology**  
 Support both SFP slot and TP WAN port for various kinds of deployment and saving manual setting efforts.
- Smart Lighting Control**  
 LED Indicators for link activities and status can be quickly switched ON/OFF by pressing a control button. This Smart Lighting Control can turn off LED blinking indicators especially 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.
- CLI Management**  
 It supports Command Line Interface (CLI) which requires fewer resources and is easier to configure multiple devices at a time. For experts, it would be more concise and powerful to manage the gateway.

4 Ports 10/100/1000Mbps RJ-45 and 1 Combo Uplink Port ( 10/100/1000Mbps RJ-45 and 100/1000 Mbps SFP Slot ) Gigabit Ethernet Residential Gateway with Dual Band IEEE 802.11n/ac Wi-Fi

### Description


Connection Technology System (CTS) FWR5-3105SFP-CW-AC-DR series solution is a Web & SNMP managed fiber optical residential gateway which is designed to meet the FTTH deployment requirements for delivering high speed internet access, IPTV services. FWR5-3105SFP-CW-AC-DR provides one (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/ac WiFi module for wireless access application.

Aimed at the operators or services providers who deliver the multiple services for residential users, the FWR5-3105SFP-CW-AC-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/ac WiFi connection enable users 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.

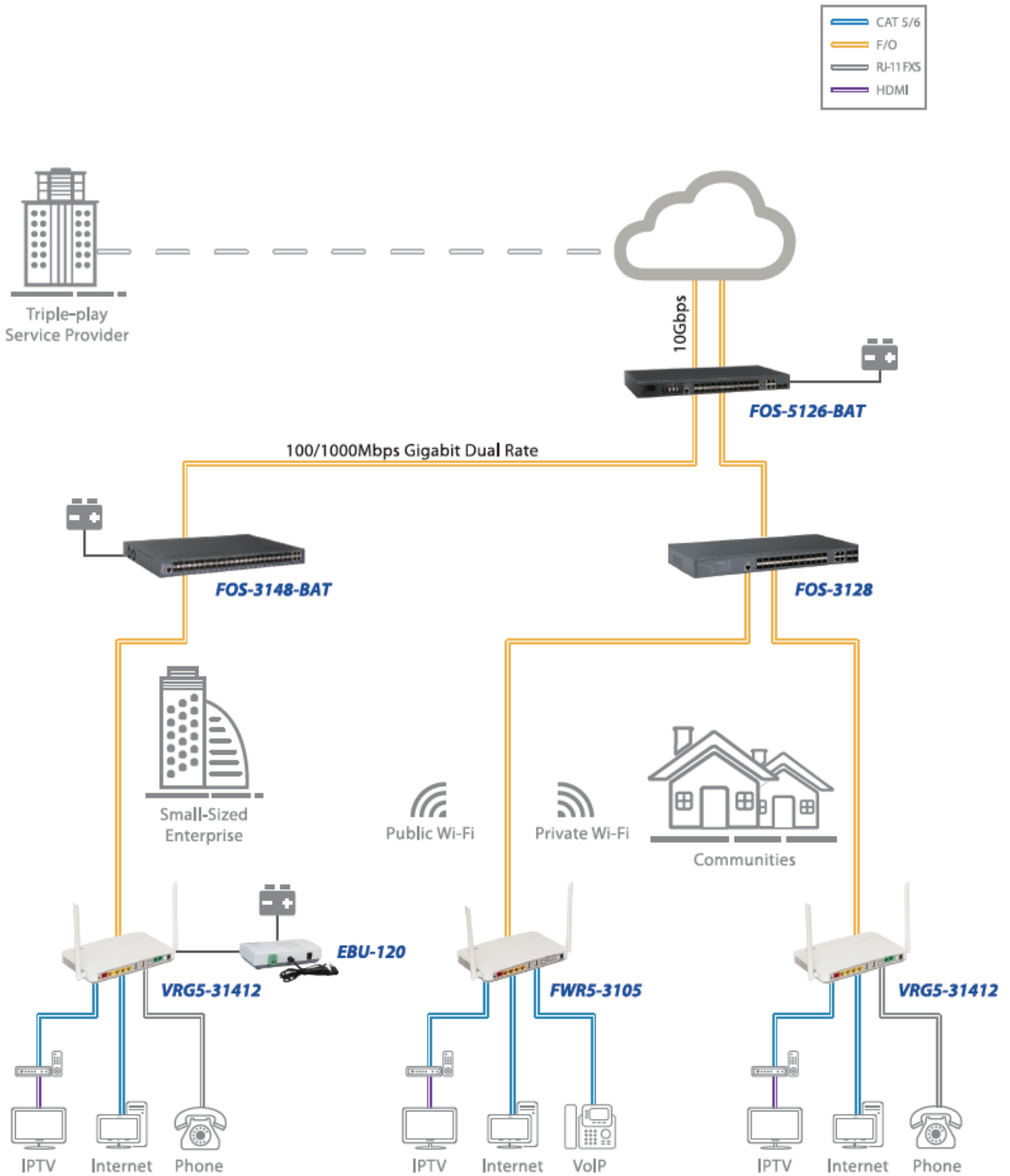
The Combo WAN port of FWR5-3105SFP-CW-AC-DR can support both short & long-distance connections for the deployments to the household, apartment or campus. The device management is based on CLI, Web and SNMP interfaces to fulfill the requirement of mass deployments, the device also supports auto-provisioning 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.**

\*  Customization of SW may be required for the interoperability of the ACS and FWR5-3105SFP-CW-AC-DR.

## Application Diagram



## Specification

### Interface

- LAN:10/100/1000Base-T RJ-45 x 4
- Combo WAN:100/1000Base-X SFP and 10/100/1000Base-T RJ-45 x 1
- USB 2.0 (Type A) x 2
- IEEE 802.11n/ac 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
- IEEE 802.11b/g/n/ac

### 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
- Jumbo Frame up to: 9K
- MAC Address Table: 1K

### 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
- Priority Queues: 4 Queues
- CoS, 802.1p, DSCP
- Weighted Round-Robin(WRR)/
- Strict-Priority Queuing(SPQ) Scheduling
- Algorithm
- Policy and Shaping Rate Limit

### Layer 3 Routing

- NAT/Bridge Hybrid Mode
- Static Route
- DHCP Client & Server
- DNS Client & DDNS
- IGMP Proxy
- IGMP Snooping v1 & v2
- IGMP Fast Leave
- DMZ Host

### Security

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

### WiFi

- Wireless AP Mode
- NAT/Bridge Mode by SSID
- IEEE 802.11b/g/n/ac
- WiFi Protected Setup (WPS)
- 64/128-bit WEP, WPA, WPA2 Data Encryption
- MAC Access Control for WiFi Link
- 8 SSID
- 2.4GHz/5GHz Dual Band

### Network Management

- IPv4/IPv6 Dual Stack\*
- Web/CLI Management
- SNMP v1/v2c
- HTTP/FTP/TFTP Firmware Upgrade
- DHCP Auto Provision
- TR-069\*\*
- Event Syslog
- Power Down Trap

### Power Requirement

- External Power Adaptor
- AC Input: 100VAC~240VAC
- Frequency Range: 50~60Hz
- DC Output : 12V

### Environmental Condition

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

### Dimension & Weight

- Size: 273 x 197 x 30.8mm
- Weight: 0.46Kg

### EMC/Safety

- FCC Class A, CE

\*\*\*Coming Soon

\*\*\*\* Firmware upgrade 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

FWR5-3105SFP-CW-AC-DR

| Model                 | FIBER PORT   |      |           |          |      | TP PORT      |      | WLAN            | VoIP     | CATV RF |         |
|-----------------------|--------------|------|-----------|----------|------|--------------|------|-----------------|----------|---------|---------|
|                       | Speed (Mbps) | Type | Connector | Distance | Port | Speed (Mbps) | Port | Type            | FXS Port | Fiber   | Coaxial |
| FWR5-3105SFP-CW-AC-DR | 100/1000     | SFP  | -         | -        | 1    | 10/100/1000  | 5    | 802.11 b/g/n/ac | -        | -       | -       |
| FWR5-3105TP-AC        | -            | -    | -         | -        | -    | 10/100/1000  | 5    | 802.11 b/g/n/ac | -        | -       | -       |

SFP-31

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

SFP-31-DR

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