

FG101 Fiber Gateway

Residential gateway for FTTH

The FG101 is a residential fiber gateway (FTTH) with built in bridge and router functions. FG101 features one 100Base-FX WAN interface, four LAN ports, two FXS POTS ports and wireless 802.11b/g.

The integrated Ethernet switch features automatic crossover correction. Two lines of telephony service are provided using VoIP technology with SIP signaling protocol. FG101 is designed with a passive fiber tray that can be preinstalled in the customer premises and an active CPE part that will slide onto the passive fiber tray. The fiber tray may be equipped with a remote managed CATV module.



Features

- Fiber interface supports up to 100 Mbps downstream and 100 Mbps upstream rates
- Integrated four-port Ethernet switch with automatic speed sensing and crossover correction
- 802.11b/g WLAN supports up to 54 Mbps transmission rate (optional)
- Secure transmitting encryption by either 802.1x; WEP; WPA; WPA2; TKIP; AES; 802.11i
- Two FXS ports for VoIP
- Supports voice CODECs like G.711, G.726, G.729AB, BV16, iLBC, T.38 etc.; programmable G.168 echo cancellation, adaptive jitter buffer and packet loss concealment
- Voice activity detection (VAD), comfort noise generation (CNG) and Caller ID
- DTMF tone detection and generation;
- Fax / Modem detection and pass-through
- Supports SIP signaling protocol and bonus services like call forwarding, call waiting, call transfer, call busy, call return, enquiry service, CLIP/CLIR and three way conference
- Supports Networking protocols such as PPP, NAT, Routing, DHCP server / relay / client
- Local and remote management and configuration
- Firmware upgradeable through HTTP, TFTP or TR-069
- Supports TR-069 and TR-104
- Optional CATV module (remote managed)



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Specifications, hardware

Local Interface

- Four 10/100 Base-T Ethernet ports in RJ-45 connector, comply with IEEE 802.3u
- Integrated 802.11g WLAN Access Point with external antenna, backward compatible with 802.11b

WAN Interface

- Single-mode single fiber transceiver
- Operates at a nominal wavelength of 1310 nm and receiver at 1550nm
- SC Connector

Analog Voice Interface

- 2 * FXS ports with RJ-11 connectors

for analog phone set connection

OAM

- Through Web browser, remotely or locally
- One hidden console port (RS-232) for maintenance

Environment

- Operation Temperature: 0°C ~ 45°C
- Operation Humidity: 5% ~ 95% (non-condensing)
- Storage Temperature: -20°C ~ +85°C
- Storage Humidity: 5% ~ 95% (non-condensing)

Power

- DC adapter: Input 120 VAC/60Hz or 230VAC/50Hz; Output 12V DC 1A
- Power consumption: Less than 15 watts

Physical Dimensions

- (220 × 150 × 28)

Specifikations, software

Routing

- Supports Point-to-Point Protocol (PPPoE) and user authentication via PAP, CHAP or MS-CHAP
- Routing Information Protocol (RIP) v1 and v2, static route
- DHCP client, server and relay agent
- NAT / PAT – RFC1631 with support for extensive ALGs
- DNS relay

Firewall

- NAT: 16 sessions, DMZ and ALGs
- Stateful Packet Inspection (SPI) with DOS protection - Ping of Death, SYN Flood LAND
- Protection against IP and MAC address spoofing
- UPnP NAT traversal and VPN / IPSec pass-through

Wireless

- Supports 802.1x; WEP; WEP2; WPA; TKIP; AES; 802.11i
- Hidden SSID
- WMM for advanced Quality of Service
- AES in hardware

Voice

- FXO for failsafe lifeline
- Supports voice CODECs like G.711, G.726, G.729AB, BV16, ILBC, T.38 etc

- G.168 line echo cancellation with programmable tail
- Adaptive jitter buffer, packet loss concealment (PLC), voice activity detection (VAD), comfort noise generation (CNG) and Caller ID

- DTMF tone detection and generation; Fax / Modem detection and pass-through

VoIP and Telephony Bonus Services

- Supports SIP (RFC3261), SDP (RFC2327, RFC3264) as well as both TCP and UDP transport
- Supports User Agent Client (UAC) - User Agent Server (UAS) call, or proxy call routing
- Supports SIP and telephone URL addressing
- Supports in-band DTMF tone sending / receiving and out-band DTMF signaling with RTP, as per RFC2833

- Provisioning through TFTP client with configuration profile

Configuration and Network Management

- SNMP GETs, SETs and TRAPs for four groups in MIB-II
- Embedded syslog; SNTP with DHCP options
- UPnP Internet Gateway Device (IGD) compliance

- Management and configuration via Web / HTTP

- Firmware upgrade using HTTP, TFTP or TR-069

- Supports TR-069

- Supports TR-104

Note: Not every listed feature will be included in the shipping product.

We reserve the right to make changes of technical specifications, housing or design without prior notice.



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