



GW-532FW

**Gigabit Ethernet Fiber IAD Gateway
with IEEE 802.11n WiFi**

The GW532FW is a single mode Fiber and VoIP-based IAD (Internet Access Device), which is designed to interoperate with end-to-end fiber from major vendors to meet the worldwide market requirements of triple-play services. It is Class 1 Laser product complying with EN 60825-1. The integrated Ethernet switch features automatic crossover-correction and auto-negotiation for easy connection to user's PCs or LAN environment. The GW532FW model also features a built-in 802.11n WLAN which brings relief to those troublesome wirings. Two lines of telephony service are provided using VoIP technology with SIP and MGCP signaling protocol.

Features

Voice Features

- G.722, G.711 a/ μ -law, G.729A/B, G.726, G.723.1 GSM 6.10 Full Rate, iLBC 13.3 kbps
- DTMF Detection and Generation
- Silence Suppression & Detection
- Comfort Noise Generation (CNG)
- Voice Activity Detection (VAD)
- Echo Cancellation (G.165/G.168)
- Dynamic Jitter Buffer
- Call progress tone generation (FXS)
- Programmable Gain Control
- Inbuilt Local Mixer
- ITU-T V.152 Voice-band Data over IP Networks

SIP Method Support

- ACK, BYE, CANCEL, INFO, INVITE, MESSAGE, NOTIFY, OPTIONS, PING, PRACK, PUBLISH, REFER, REGISTER, SUBSCRIBE, UPDATE

SIP Call Features

- Peer to Peer Call
- Call Hold / Retrieve
- Call Waiting
- Call Pick Up
- Call Park / Retrieve (SIP Server Required)
- Call Forward - unconditional, busy, no answer
- Call Transfer - attended, unattended
- Do Not Disturb
- Speed Dialing
- Repeat Dialing
- Three-way Calling
- MWI (RFC-3842)
- Hot Line and Warm Line

IPTV Application

- IGMP Snooping
- Virtual LAN (VLAN)
- Quality of Service (QoS)

SIP Call Management

- Support Outbound Proxy
- SIP Registration Failover Mechanism
- Group Hunting
- Privacy Mechanism / Private Extensions to SIP
- Session Timers (Update / Re-invite)
- DNS SRV Support
- Call Types: Voice / Modem / FAX
- User Programmable Dial Plan Support
- Automatic Calling Number Manipulation
- CDR Client
- Manual Peer Table (for P2P calls)
- E.164 Numbering, ENUM support

SIP Account Management

- By port registration
- By device registration (share account)
- Mixed mode (Hunt number for inbound, by port number for outbound)
- Invite with Challenge
- Register by SIP Server IP Address or Domain Name
- Support RFC3986 SIP URI format

Telephony Specifications

- In-Band DTMF, Out-of-Band DTMF Relay (RFC2833 or SIP INFO)
- DTMF / PULSE Dial Support
- Caller ID Generation / Detection:
 - DTMF
 - FSK-Bellcore Type 1 & 2
 - FSK-ETSI Type 1 & 2
 - FSK-NTT
 - FSK: Calling Name, Number, Date and Time, vMWI
- FXS metering pulse:
 - Polarity Reversal
 - 12kHz calling tone
 - 16kHz calling tone
- Polarity Reversal Generation (FXS)
- T.30 FAX Bypass to G.711, T.38 Real Time FAX Relay
- ROH Tone (Receiver Off-Hook Tone @ 480 Hz)
- Loop Current Suppression

Wireless

- Compliant with IEEE802.11b/g/n, 2T2R
- Operating frequency 2.4GHz
- Auto rate adaptive
- Multi-SSID
- Broadcast SSID control
- 64 / 128 bits WEP supported for encryption
- Wireless Security with WPA-PSK / WPA2-PSK
- WDS repeater function
- Wi-Fi Multi-Media (WMM) for AP mode
- WPS (Wi-Fi Protected Setup) for easy setup

Physical interface

- Combo WAN : Gigabit Ethernet copper or fiber SFP
- LAN : 4-Port RJ-45 10/100/1000 Ethernet
- Antenna : 2 x 2dBi detachable antenna
- Telephone:2-port FXS
- Factory default reset button, WPS push button, Power jack, Power switch
- USB 2.0 Host interface x 2

LED Indicators

- Power, Provision/Alarm, Register, WAN, WLAN, LAN1~LAN4, USB, Phone off-hook 1~2, WPS

Network Security Specifications

- DIGEST Authentication
- MD5 Encryption
- DoS Protection (configurable)
- Firewall: MAC filter, IP/Port filter, URL filter

Device Management

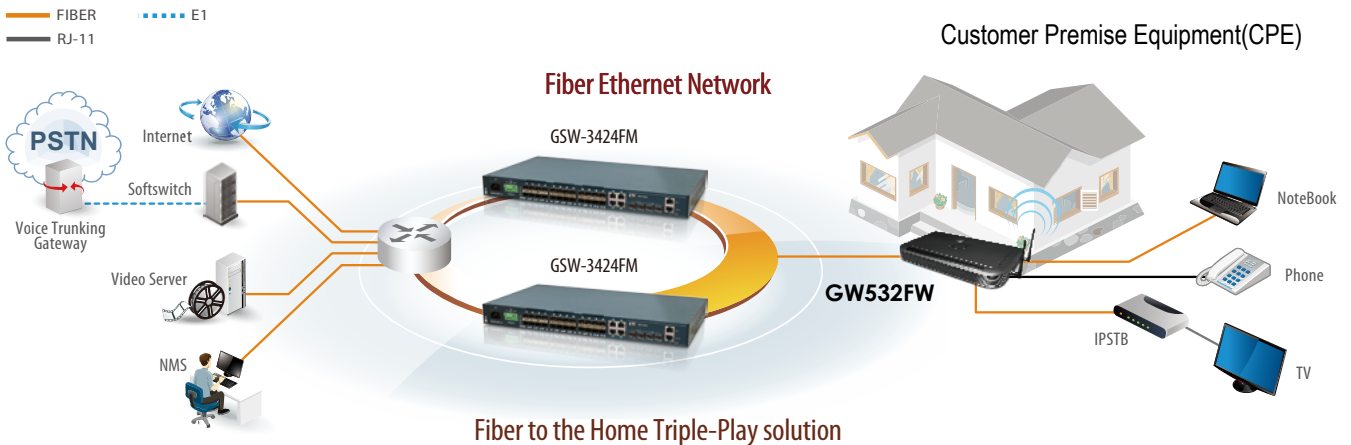
- WEB, TELNET
- TR-069, TR-098, TR-104, TR-111
- ACS info via DHCP options
- Two levels WEB login account
- WEB languages: English, TC
- System Information
- Per call RTP packet summary
- PING inquiry
- Syslog

Specifications

Protocol	SIP (RFC3261)
Model	2FXS
Combo WAN	Gigabit Ethernet copper or fiber (SFP)
LAN	4-port RJ-45 10/100/1000 Ethernet
Wi-Fi	IEEE 802.11b/g/n, 2T2R
Telephony Interface	RJ-11 connector
Power	AC 100~240V 50/60Hz input, DC 12V/2A output

Power Consumption	< 15W
Dimensions	155 x 226 x 80mm(D x W x H)
Weight	480g
Temperature	0 ~ 45°C (Operating), -25 ~ 75°C (Storage)
Humidity	Up to 90% RH, non-condensing
Certification	CE, FCC, RoHS
MTBF	57,000 hours

Application



Ordering Information

Model Name	Description
GW532FW	Fiber IAD Gateway with IEEE 802.11 n Wi-Fi