

*Preliminary*



## GW-732FW

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

The GW-732FW is the new generation 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 GW-732FW model also features a built-in IEEE 802.11ac WLAN which brings relief to those troublesome wirings. Two lines of telephony service are provided using VoIP technology with SIP signaling protocol.

### Features

#### Voice Features

- G.711 a/μ-law, G.729A/B, G.726, G.723.1
- 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

#### 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/ac, 2.4G/5G concurrent operation
- Operating frequency 2.4 G/5 GHz
- 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 : GbE 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 x2

**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**

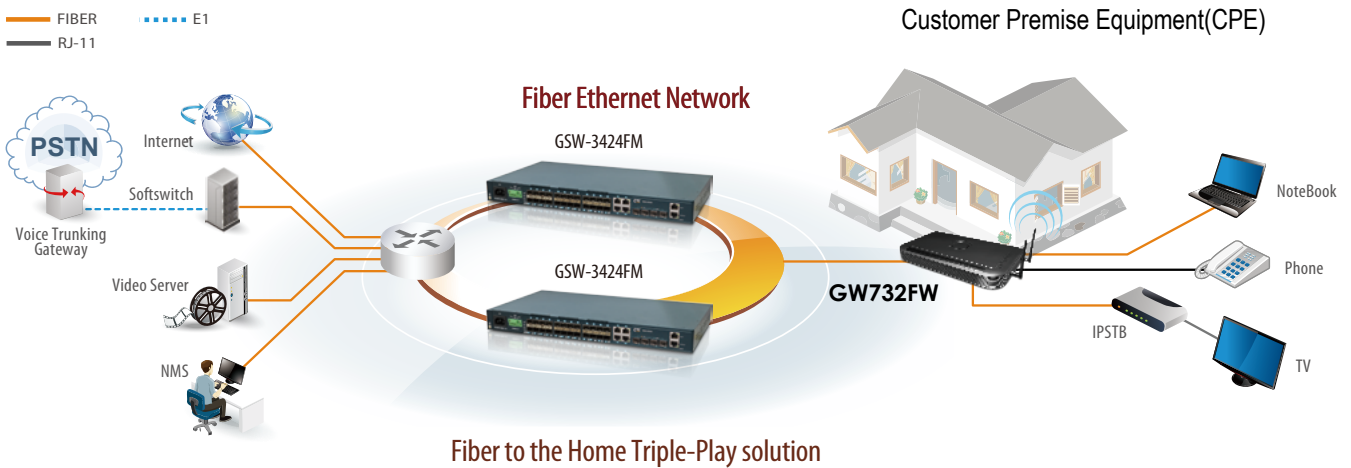
- WEB, TELNET
- TR-069, TR-098, TR-104, TR-111
- ACS info via DHCP options
- Two levels WEB login account
- WEB languages: English, TC
- System Information
- Per call RTP packet summary
- PING inquiry
- Syslog

**Specifications**

|                            |   |
|----------------------------|---|
| <b>Protocol</b>            | SIP (RFC3261)                                     |
| <b>Model</b>               | 2FXS  |
| <b>Combo WAN</b>           | GbE Ethernet copper or fiber (SFP)                |
| <b>LAN</b>                 | 4-port RJ-45 10/100/1000M Ethernet                |
| <b>Wi-Fi</b>               | IEEE 802.11b/g/n/ac, 2.4G/5G concurrent operation |
| <b>Telephony Interface</b> | RJ-11 connector                                   |
| <b>Power</b>               | AC 100~240V 50/60Hz input, DC 12V/2A output       |

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

**Application**



**Ordering Information**

| Model Name | Description                                |
|------------|--|
| GW732FW    | Fiber IAD Gateway with IEEE 802.11ac Wi-Fi |