

NEW

GW-632FW

Gigabit Fiber IAD Residential Gateway



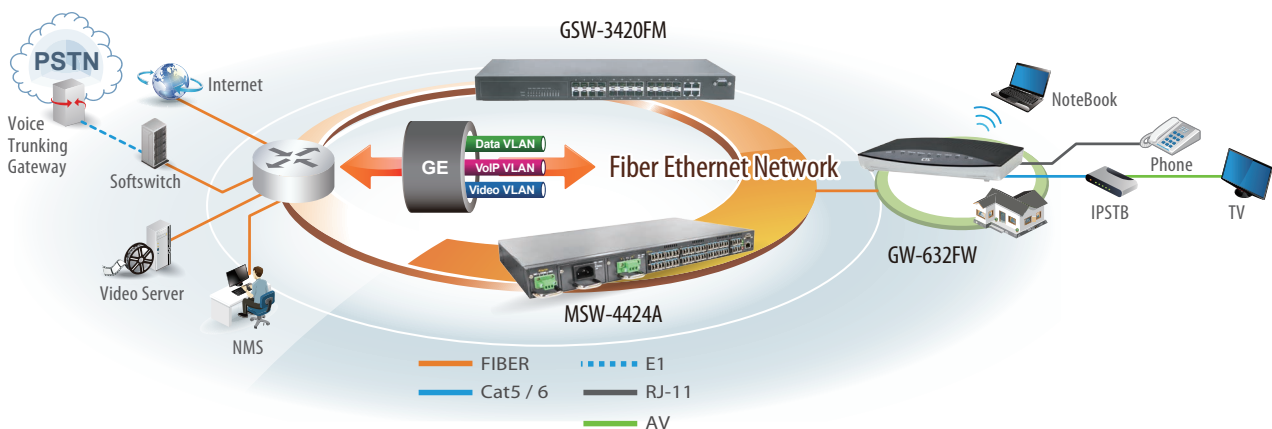
GW-632FW is a high performance Gigabit Ethernet residential gateway for Fiber-to-the-Home (FTTH) applications. It features both SFP based fiber and RJ-45 copper GbE WAN, four ports GbE LAN, two USB 2.0 host ports, WiFi 802.11 b/g/n and two VoIP FXS POTS ports. The integrated four port 10/100/1000M GbE switch features auto-crossover detection for easy connection with other Ethernet devices. The WAN port comes with RJ45 and SFP with autosensing for various types of optical transceiver modules.

The GW-632FW performs at near wire speed (1000Mbps) between WAN and LAN to provide good quality of service for high definition IPTV, VoIP and high speed Internet applications simultaneously. The two lines VoIP service over telephone uses SIP protocol to fulfill most toll quality telephony requirements for various countries. The built-in WiFi IEEE 802.11 b/g/n 2T2R provides excellent wireless performance to other client devices. The GW-632FW also supports IPv6 for future extending services. Network management may be via TR-069, Web or Telnet for advanced system provisioning and future upgrades. The two USB 2.0 host ports may be used for home cloud storage or print server applications. With these highly integrated features, the GW-632FW provides tremendous flexibility for the service provider with add on value customization to their subscribers.

Features

- Gigabit Ethernet interface with autosensing of RJ45 & SFP
- SFP port for expansion to optical connection by plug-in 100/1000M optical transceiver module
- Integrated high performance packet acceleration engine to provide near wire speed 1000Mbps WAN to LAN routing performance
- Integrated four-port Giga Ethernet switch with automatic speed sensing and crossover correction
- Supports four ports 10/100/1000 Mbps Ethernet for Internet Access or IPTV streaming video application
- IEEE 802.11-compliant WLAN supports up to 54 Mbps (11g) or 300Mbps (11n) physical link rate and air transmission is secured by WEP, WEP2, WPA, WPA2, TKIP, AES, 802.11i or 802.1x
- Supports Ethernet IEEE 802.1Q/p VLAN and priority queue, as well as IEEE 802.3x flow control
- Single fiber BiDi SC/APC receptacle.
- Supports various voice CODECs, echo cancellation, voice activity detection (VAD), comfort noise generation (CNG), caller ID, DTMF tone detection/generation and etc.
- 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
- Two USB 2.0 host port may be used for application of home cloud storage and printer server
- Supports Networking protocols such as PPP, NAT, Routing, DHCP server / relay / client
- Configuration and management via CLI/Telnet, Web/HTTP, TR-064 or TR-069
- Software is upgradeable through HTTP or TFTP or TR-069One SFP Electrical Footprint interface complies MSA
- Supports Ethernet IEEE 802.1Q/p VLAN and priority, as well as IEEE 802.3x flow control

Application



Specifications

Hardware

WAN Interface	10/100/1000M Ethernet with RJ45 & SFP
Local Interface	Four ports 10/100/1000Base-T auto-sensing Ethernet switch with auto-MDIX support, in RJ-45 connector Two USB 2.0 host ports in type A connector, with up to 500mA / 5Vdc power supply each WiFi 802.11b/g/n (draft 2.0 compliance, 2T/2R @ 2.4GHz) Wireless LAN Access Point - Two Internal antennas: 1.5dBi - Link Rate : 300 Mbps max. - RF radiated power: maximum 100mW EIRP
LED Indicators	POWER – ON indicates RG (Residential Gateway) is correctly powered. WAN – GREEN ON indicate WAN port (RJ45 or SFP) is linked; GREEN blinking indicates data transmitting. Ethernet –GREEN ON indicates LAN port is linked; GREEN blinking ON indicates data transmitting. Wireless – ON indicates WLAN is active and blinking when there is traffic. TEL1 – ON indicates a VoIP call is undergoing, flashing while there is an incoming call. TEL2 – ON indicates a VoIP call is undergoing, flashing while there is an incoming call. Internet – ON indicates Internet connection is successfully established. USB – ON indicates an USB device is recognized and linked. WPS- blinking indicates the router is ready for WPS auto authentication.
Environment	Operation Temperature 0°C ~ +45°C Operation Humidity 10% ~ 90% (non-condensing) Storage Temperature -20°C ~ +70°C Storage Humidity 10% ~ 90% (non-condensing)
Power	AC Power Adapter: input 100~240 VAC 50/60 Hz; output 12 Vdc, 2 Amp Optional AC UPS: input 85~264 VAC / 47~70 Hz; output 12 Vdc, 2 Amp Power consumption < 21 W
Dimensions	160 x 255 x 42 mm (D x W x H)
Certificates	CE, FCC Part 15 Class B
Software	
GbE WAN	Auto Detection between SFP and RJ-45.
WAN Connection	Static IP, or Dynamic IP by DHCP client PPPoE Bridge mode Supports of authentication of the IPoE connection via IEEE 802.1x EAP encapsulation over LANs (EAPOL) Supports multiple WAN interfaces in mixed mode
Routing	Static route by gateway or interface Policy route by interface, source or destination IP address / subnet, protocol or port range Dynamic Routing with RIP v1 and v2 IGMP proxy (v1/v2) for IP multicasting
NAT and Firewall	NAT / PAT with extensive ALG's (SIP, IRC, TFTP, H.323, SNMP and RTSP), pass-through for IPsec/L2TP/PPTP, as well as one DMZ zone Up to 512 translations with 16 static entries Virtual server supports up to 20 entries Firewall features MAC address filter, URL blocking, Internet cROUTERnt filter, Access cROUTERrol list (ACL based on IP/Port address), schedule rule and virtual DMZ UPnP NAT traversal and VPN / IPsec pass-through Secondary IP address

QoS Features	Supports up to 8 priority queues per egress bridge port, with SP scheduling and configurable queue packet size Supports a downstream mapping table from 802.1p P-bits field to priority levels Supports a downstream mapping table from DSCP code points to priority levels VLAN tagged packets are mapped to priority queues according to P-bits mapping table Untagged IP packets are mapped to priority queues according to DSCP mapping table Configurable default priority level for untagged non-IP packets
Bridging	802.1Q VLAN tagging and un-tagging, 802.1p with 8 priority queues 802.3x flow control Supports Unicast, Multicast and Broadcast traffic IGMP snooping v1/v2/v3
Wireless LAN	WEP/WPA/WAP2/WPA-PSK/WPA2-PSK supported Hidden SSID WEP: 64 or 128 bits key length WPA (Wi-Fi Protected Access) and WPA2 in Personal or Enterprise mode, mix of WPA and WPA2, or 802.1x sing EAP with RADIUS Up to four SSID's to support virtual AP Supports WPS (both PBC and PIN code) for easily setting up secure wireless network Supports WDS (Wireless Distribution System) for repeater application WMM (Wi-Fi Multimedia) to support QoS for media service Access cROUTERrol list based on MAC address
Voice Features	Supports voice CODECs like G.711, G.729A/B G.168 line echo cancellation with up to 32ms tail Adaptive jitter buffer, packet loss concealment (PLC), silence compression and Caller ID DTMF tone detection and generation; Fax / Modem detection and pass-through
VoIP 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 Bonus services include: - Call Forwarding: Unconditional, No Response, On Busy - Call Waiting: Force Busy, Pickup and Release Old, Pickup and Put Old on Hold, Switch between two calls - Call Transfer, Call Back busy subscriber, Call Back last number called (call return) - Enquiry service - Three way conference Provisioning through TFTP client with configuration profile
System Management	
Configuration and Network Management	UPnP Internet Gateway Device (IGD v1.0) Supports syslog with remote server Ping client for IP diagnostic Any port management with cROUTERrol list (MCL) based on IP address Support Configuration Backup and Restore Supports TR-069, TR-098 & TR-104 TFTP (client), HTTP or TR-069 for firmware upgrade Local or remote configuration and management through Web, CLI, TR-064 or TR-069

Ordering Information

Model Name	Description
GW-632FW	Gigabit Fiber IAD Residential Gateway