

EVO3000GW

CABLE GATEWAY

Evolution Digital's EVO3000GW Gateway (Modem + AP Router) operates as both DOCSIS 3.1 and DOCSIS 3.0 32x8 with extreme speed capabilities up to 10 gigabits per second, enabling operators to provide premium services while data traffic for increasingly complex Internet usage grows in customers' homes such as 4K video streaming and gaming.

EVO3000GW serves as the hub of the subscriber's network, connecting all IP-capable devices (Internet, Data and Video) throughout residential and commercial subscribers' premises. Users and MSO administrators have remote access (via device manager web portal or mobile application, respectively) for configuration, diagnostics and control, enabling seamless and superior real-time management tools. Intelligent airtime scheduling ensures strict priority for video flows, as well as band steered admission control with Automatic Packet Recovery.



KEY FEATURES

Generic

- DOCSIS 3.1 compliant
- DOCSIS 3.1 2x2 Multi-carrier OFDM/OFDMA
- DOCSIS 3.0 32x8 channel bonding
- SNMP, TR-069
- Superior heat/power management
- SW architecture – HAL, Extensibility, Modularity
- RAM: 512MB DDR3
- NAND: 256MB / NOR: 4MB

Security

- WPS, SSL/IPSEC, WPA/WPA2(TKIP/AES)
- IEEE802.11i, Firewall
- VPN Support

Maintainability

- TR-069 and TR-181
- Remote Management Server + Device Management
- SNMP v2,v3
- Wi-Fi Insight
- SON – Self-adjustment/recovery/health check

DOCSIS

- Smart quick scanning
- Full capture tuning range
- Baseline Privacy Interface plus (BPI+)
- DOCSIS 3.0/3.1 Security (EAE, SSD)
- Provisioning and setting of CPE features by config file
- Up/Downstream Spectrum Analyzer

Wi-Fi Features

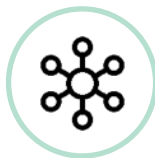
- 802.11a/b/g/n/ac dual-band concurrent
- 11n 4x4 (2.4GHz)
- 11ac 4x4 (5GHz) Wave2 MU-MIMO
- Airtime Fairness (ATF)
- QoS (WMM)
- WPS (Wi-Fi Protected Set-Up) PBC
- Band Steering
- Hot Spot 2.0

Network

- IPv4/IPv6 dual stack support
- DHCP v4/v6 server/client
- Remote Diagnostics



Up to 10 Gbps
Download Speed



2 OFDM x 2 OFDMA



Compatible with
DOCSIS 3.0 & 3.1



Remote
Diagnostics / Monitoring



IPv4/IPv6
Dual Stack Support

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RF Downstream

- Bonded Channels : Up to 32 SCQAM or 2 OFDM
- DOCSIS 3.1 Demodulation : Multi-carrier OFDM 16 to 4096QAM
- DOCSIS 3.0 Demodulation : 64QAM, 256QAM
- DOCSIS 3.1 Data Rate : Up to 5Gbps with 2 OFDM 192MHz
- DOCSIS 3.0 Data Rate : Up to 1.2 Gbps with 32 bonded channels
- Frequency Range : 108 ~ 1002MHz
- RF Input Sensitivity Level :
-15 dBmV to +15 dBmV (DOCSIS)

RF Upstream

- Bonded Channels :
Up to 8 SCQAM or 2 OFDMA
- DOCSIS 3.1 modulation : Multi-carrier OFDMA BPSK to 4096QAM
- DOCSIS 3.0 modulation : QPSK, 8QAM, 16QAM, 32QAM, 64QAM, and 128QAM (SCDMA only)
- DOCSIS 3.1 Data Rate : Up to 700Mbps with OFDMA 96MHz(5~85MHz)
- DOCSIS 3.0 Data Rate : Up to 240Mbps with 8 bonded channels
- Frequency Range :
5 to 42MHz or 5 to 85MHz
- Upstream transmit signal level :
+11 to 65dBmV

Network

- IPv4/IPv6 dual stack support
- VPN Pass-Through (L2TP, PPTP/IPSec)
- DHCP v4/v6 server/client
- DNS proxy
- IGMP(v3), IGMP Snooping, MLD – Multicast support
- VLAN IEEE 802.1q
- Dynamic and Static NAT-NAPT
- Port-forwarding
- DMZ support

WLAN

- 802.11a/b/g/n/ac dual-band concurrent - MU-MIMO(Wave2)
- 11n 4x4 (2.4GHz), 11ac 4x4 (5GHz)
- 20/40/80/160(80+80) MHz channel bandwidth
- Wi-Fi Smart Mesh - AP Steering (Easy Set-up/Mobile Set-up)
- Wi-Fi Scanner, DFS
- IAS (Intelligent Airtime Scheduling)
- Hotspot 2.0
- Auto-Channel Selection (ACS), Interference Immunity
- Multi-SSID (up to 8 SSIDs for each radio)
- QoS (WMM, 802.11e, 802.1p DiffServ, Queuing Classification)
- Beamforming
- Output power(EIRP)
– 2.4GHz : 28 (±2)dBm, 5GHz : 28 (±2) dBm (Total Combined Power, with Antenna Gain)

Security/Safety

- Security/Encryption modes
– WEP-64/WEP-128
– WPA-PSK/WPA2-PSK(TKIP/AES)
- Stateful Packet Inspection (SPI)
- VPN pass-through (IPSec, L2TP)
- IP/Port/MAC/URL based Filtering
- DoS Attack Protection (TCP, UDP)

Management/ Diagnostics/ Configuration

- Web-based GUI control configuration and management
- Remote Diagnostics (TR-069, TR-181)
- Remote Management Server + Device Management
- User-friendly Diagnostics
– Graphical Display, Statistics Info
– Error Status Notification
– Topology Map

Compliance/Certificates

- CableLabs
- Wi-Fi Alliance
- FCC/UL, RoHS Compliant

Interface

- Front Panel
– LEDs
– WPS push button
- Back Panel
– F-type 75Ω female connector
– 4 GbE LAN ports
– 1 USB 3.0 port*
– 12V DC/3.3 Amps
– Power input, Reset(pin hole)

Mechanical & Environmental Specification

- Operating Temperature :
0°C (32°F) ~ 40°C (104°F)
- Storage Temperature : -
40°C (-40°F) ~ 70°C (158°F)
- Humidity : 10 ~ 90% (Non-condensing)
- Dimensions (H x W x D mm) :
235 x 190 x 65 mm
- Weight : 690g ± 10g