



CG3000-LD42J **Cable Gateway**

DOCSIS 3.1 eMTA Wi-Fi Gateway **All-In-One Solution for Your Gigabit** **Wired / Wireless Home Network**

CG3000, DOCSIS 3.1 eMTA Gateway, provides gigabit internet speed over wired/wireless connection based on KAON's PowerLink™ technology.



CG3000 Cable Gateway Key Features

Generic

- DOCSIS 3.1 compliant
- DOCSIS 3.1 2x2 Multi-carrier OFDM/OFDMA
- DOCSIS 3.0 32x8 channel bonding
- SNMP, TR-069
- 2 FXS for telephony Ports
- DLNA, SAMBA, PRINT SERVER, FTP SERVER
- Superior heat/power management
- SW architecture – HAL, Extensibility, Modularity

Security

- Secure OS*, DPI*, WPS, SSL/IPSEC
- Dual NAT, IEEE802.11i, Firewall

Maintainability

- TR-069 and TR-181
- SNMP v1,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 Setup) PBC
- Band Steering
- Hot Spot 2.0

Network

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

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KAON CPE AnyLink™ Specifications

RF Downstream

- Bonded Channels : 2 OFDM and 32 single-carrier QAM
- 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 ~ 1218MHz or 258 ~ 1218MHz(configurable)
- RF Input Sensitivity Level : -15 dBmV to +15 dBmV (DOCSIS)

RF Upstream

- Bonded Channels : 2 OFDMA and 8 single-carrier QAM
- 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 1Gbps with 2 OFDMA 96MHz
- DOCSIS 3.0 Data Rate : Up to 200Mbps with 8 bonded channels
- Frequency Range : 5 ~ 85MHz or 5 ~ 204MHz
- Upstream transmit signal level : +11 to 65dBmV

Network

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

WLAN – KAON PowerLink™

- 802.11a/b/g/n/ac dual-band concurrent
- 11n 4x4 (2.4GHz), 11ac 4x4 (5GHz)
- 20/40/80/160 MHz channel bandwidth
- Wi-Fi MESH*, Wi-Fi Scanner, DFS, Best EIRP
- IAS (Intelligent Airtime Scheduling)
- Band Steering
- Hotspot 2.0
- Auto-Channel Selection (ACS), Interference Immunity
- WPS (Push button)
- Multi-SSID (up to 8 SSIDs for each frequency)
- QoS (WMM,802.11e, 802.1p DiffServ, Queuing Classification)
- Security/Encryption modes
 - WEP-64/WEP-128, WPA-PSK/WPA2-PSK (TKIP/AES)
- Beamforming
- Output range
 - 2.4GHz -28dBm, 5GHz -29dBm (EIRP)
 - (Total Combined Power, with Antenna Gain)

Security/Safety

- Stateful Packet Inspection (SPI)
- VPN pass-through (IPSec, L2TP)
- Port-forwarding
- IP/Port/MAC/URL based Filtering
- NAT, VLAN
- DMZ support
- DoS Attack Protection (TCP, UDP)

VoIP

- PacketCable 1.5/2.0
- T-38 FAX relay(G.711)
- DTMF(In-band, 2833, out-band)
- MGCP 1.0/NCS 1.0, SIP for 1.5 and 2.0, IMS for 2.0
- Echo Cancellation (G.165, G.168)
- G.711a/u, G.729A/B, G.722, G.726
- Country specific tones on FXS ports

Management/ Diagnostics/ Configuration

- Web-based GUI control configuration and management
- Remote Diagnostics (TR-069, TR-181)
- Quick Setup
- Communication center
- Online Tech Support
- User-friendly Diagnostics
 - Graphical Display, Statistics Info
 - Error Status Notification
- Topology Map

Compliance/Certificates

- DOCSIS
- Wi-Fi Alliance
- CE, FCC, RoHS Compliant

Interface

- Front Panel
 - LEDs
- Back Panel
 - F-type 75Ω connector
 - 4 GbE LAN ports
 - 2 FXS ports
 - 1 USB 3.0 port*
 - 12V DC/3.3 Amps
 - WPS, Power On/Off, 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

* indicates optional feature