



# VM3000

## DOCSIS 3.1 Modem



### DOCSIS 3.1 Modem Your Gigabit Wired Solution

*VM3000, DOCSIS 3.1 Modem provides gigabit internet speed over wired cable connections*

### VM3000 Cable Modem Key Features

#### Generic

- DOCSIS 3.1 compliant
- DOCSIS 3.1 2x2 Multi-carrier OFDM/OFDMA
- DOCSIS 3.0 32x8 channel bonding
- SNMP, TR-069, TR-181 Management Support
- 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
- 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

#### Network

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

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## KAON Modem 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

### 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)

### 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