



BoostD 3.1 eMTA

VM3100VE

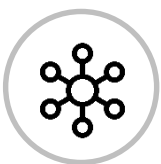


*Dimensions(W x D x H) : 72 x 138 x 175 mm

Product Overview

KAON VM1000VE is a BoostD 3.1 embedded media terminal adapter (eMTA) enabling the delivery of IP services (Internet, Data, Voice and Video). Supporting up to 4 downstream OFDM channels and 32 SC-QAMs, the VM3100VE supports data rates over 9 GBps downstream. With a 10G LAN port, VM3100VE offers ultra-high speeds to enable users enjoy dynamic home networks without latency on the existing DOCSIS cable plant.

With its advanced performance, operators can provide the QoS and experiences subscribers expect and support future service upgrades. Multiple provisioning methods (WebUI, SNMP, Config File) are available for simplified configuration and control.



4 OFDM x 2 OFDMA

Backward compatibility
with DOCSIS 3.0

10 GbE LAN

Remote Management
/MonitoringIPv4/IPv6
dual stack support



Technical Specifications

RF Downstream

- Frequency range: 108 or 258 to 1218MHz
- Channel bonding maximum: SC-QAM 32, OFDM 4
- Demodulation: 64/256/1024(SC-QAM), BPSK/QPSK/16/64/128/256/512/1024/2048/4096(OFDM)
- Maximum downstream speeds: 9.3Gbps (1.3Gbps for SC-QAM 32 and 8Gbps for OFDM 4)
- Bandwidth : 6MHz or 8MHz (SC-QAM), 24 to 192MHz(OFDM)
- Input Signal Level : -15dBmV to +15dBmV (SC-QAM), -9dBmV/24MHz to 21dBmV/24MHz(OFDM)

RF Upstream

- Frequency range: 5 to 85MHz or 5 to 204MHz
- Channel bonding maximum: SC-QAM 8, OFDMA 2
- Modulation : QPSK/16QAM/32QAM/64QAM/128QAM/256QAM (SC-QAM) BPSK/QPSK/16/64/128/256/512/1024/2048/4096 (OFDM)
- Maximum upstream speeds: 2.24Gbps (0.24Gbps for SC-QAM 8 and 2Gbps for OFDMA 2)
- Bandwidth: 200/400/800/1600/3200/6400KHz (SC-QAM), up to 96MHz (OFDMA)
- Maximum Output Level: 61dBmV(QPSK), 58dBmV (8/16QAM) and 57dBmV(32/64QAM) for SC-QAM, 65dBmV for OFDMA

Security/Safety

- Early Authentication and Encryption
- BPI+ Security
- Secure Software Download

Network

- IPv4 & IPv6 dual stack Protocol
- IP/TCP/UDP/ARP/DHCP/HTTP/ICMP/TFTP/ToD/SNMP/I
- GMP v1/v2/v3
- QoS
 - DS Service Flow Scheduling Priority queuing/Classification
 - US Service Flow Scheduling
- BE/NRTPS/RTPS/UGS/UGSAD
- Active Queue Management (AQM)

Voice

- PacketCable/EuroPacketCable 1.0, 1.1
- PacketCable/EuroPacketCable 2.0 with SIP
- T-38 FAX
- G.711a, G.711u, G.729ab
- In-band, out-band DTMP
- Echo Cancellation

DOCSIS Specification

- DOCSIS/ Euro DOCSIS 3.0 (32x8)
- DOCSIS/ Euro DOCSIS 3.1 (4x2)

Management/ Diagnostics/ Configuration

- Remote Diagnostics /Monitoring
- Event log, Syslog
- Telnet/SSH/CLI
- SNMP remote network management
- Provide MIBs for DOCSIS 3.0/3.1
- Provisioning and setting by cm configuration file
- VSIF support
- HTTP Web server
- DS/US Spectrum Analyzer
- Proactive Network Maintenance (PNM)

Compliance/Certificates

- CE, RoHS Compliant
- UL, FCC

Interface

- Front Panel
 - LEDs
- Back Panel
 - 1 X 10G LAN (RJ-45)
 - 1x 1G LAN (RJ-45)
 - 2 X VOIP (RJ-11) (Optional)
 - Reset Pin hole
 - Cable In
 - DC 12V In

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 (W x D x H mm) : 72 x 138 x 175 mm

* Note. The specification subject to change.

