

MULTI-GIGABIT DOCSIS 3.1 CABLE eMTA

Intel® Puma™7 2x2 OFDM, 2.5GigE and Voice



KEY FEATURES

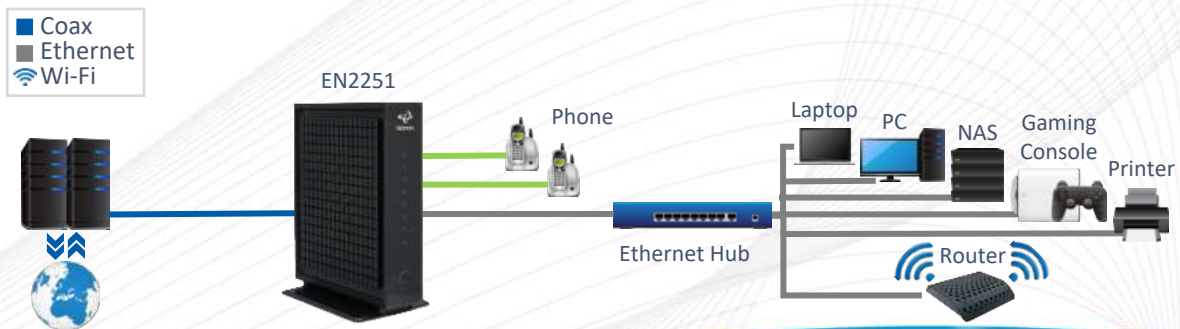
- DOCSIS 3.1 certified
- DOCSIS 3.1 2x2 multi-carrier OFDM
- DOCSIS 3.0 32x8 channel bonding
- 5-85MHz upstream fixed
- Extensive operator control via configuration file and SNMP
- Supports Business Services over DOCSIS
- 2 HD voice ports with SIP or MGCP support
- Built in MoCA immunity filter
- Full-featured, high bandwidth cable modem
- Supports 2.5GigE LAN port

HIGH-PERFORMANCE, ALWAYS-ON INTERNET CONNECTION

EN2251 is a powerful solution for providing high speed internet connection for residential and business customers delivering speeds up to 1.97Gbps based on 2.5GigE port with two bonded downstream channels over its DOCSIS 3.1 interface. The EN2251 allows MSOs to offer their customers various broadband applications such as telecommuting, HD and UHD video on demand over IP connectivity to a small office/home office (SOHO), high-speed residential Internet access, interactive multimedia services, etc. The EN2251 is an intelligent device that enhances its basic data transmission features with IPv6 support, which makes it especially suitable for the transmission of data based on this protocol.

FAST, SIMPLE DEPLOYMENT, MONITORING AND MANAGEMENT

Installation of the EN2251 is quick, straight-forward, and can be carried out by the end-user. Once connected, the built-in TFTP client automatically gets the IP address and configuration data from the network server without human intervention. A browser-based utility allows convenient viewing of key network statistics and SNMP support provides total remote control over the device.



SPECIFICATIONS

Connectivity

- RF F-type female 75Ω connector
- 1x RJ-45 Ethernet port 10/100/1000/2500Mbps (Auto-MDI/MDIX)
- 2x RJ-11 HD voice ports

Management

- Protocol support: ToD clients (IPv4/IPv6), TFTP, SNMP v1, v2C, v3
- Web-based GUI control configuration and management
- LEDs clearly display network status and activity
- Power on self diagnostic
- MIB II/MCNS MIB
- Hitron proprietary MIBs for extended support

Reception-Demodulation

- DOCSIS 3.1/3.0/2.0
- Protocol support: BSoD, DHCP
- DOCSIS 3.1 demodulation: Multi-carrier OFDM 16 to 4096QAM
- DOCSIS 3.1 data rate: Up to 1.97Gbps with 2 OFDM 192MHz downstream channels
- DOCSIS 3.0 demodulation: 64QAM, 256QAM
- DOCSIS 3.0 data rate: Up to 1.2Gbps with 32 bonded downstream channels
- Frequency (edge-to-edge): 258-1002MHz
- Channel bandwidth: 6MHz
- Signal level: -15dBmV to 15dBmV
- Input return loss: >6dB

Voice

- Protocol support: SIP & MGCP
- 2x 8kHz each HD voice

Transmitter-Modulation

- DOCSIS 3.1/3.0/2.0
- DOCSIS 3.1 modulation: Multi-carrier OFDMA BPSK to 4096QAM
- DOCSIS 3.1 data rate: Up to 720Mbps with OFDMA 96MHz upstream channels
- DOCSIS 3.0 modulation: QPSK, 8QAM, 16QAM, 32QAM, 64QAM, and 128QAM (SCDMA only)
- DOCSIS 3.0 data rate: Up to 320Mbps with 8 upstream channels bonding
- Frequency: 5-85MHz
- Upstream transmit signal level: +11 to 65dBmV
- Output return loss: >6dB

Mechanical

- 6 status LEDs (Power, DS, US, Online, Voice, Battery)
- Factory default reset button
- Dimensions: 177mm (W) x 204mm (H) x 45mm (D)
/Stand included 177mm (W) x 213.8mm (H) x 95.4mm (D)
- Weight: 500g ± 10g

Electrical

- Input power: 12VDC
- Power adaptor: 100-240VAC to DC12V, 50/60Hz, 2A
- Power consumption: 15W (typical)
- Surge protection:
 - RF input sustains at least 6KV
 - Ethernet RJ-45 sustains at least 4KV

Environmental

- Operating temperature: 32°F (0°C) to 104°F (40°C)
- Operating humidity: 10%-90% (non-condensing)
- Storage temperature: -40°F (-40°C) to 140°F (60°C)

Compliance Certificates

- RoHS compliant
- FCC, UL
- CableLabs

