DOCSIS 3.1 Voice Modem

Product Specifications

Interfaces & Standards

- Cable: F-Connector, female
- LAN: One 10/100/1000 Mbps RJ-45 port
- Telephony: 2 RJ-11 ports
- PacketCable 1.5 (NCS) or 2.0 (IMS/SIP) compatible
- DOCSIS 3.1 certified

Downstream*

- Frequency Range: 258MHz-1218MHz
- Capture Bandwidth: 1.218GHz
- Modulation: 64 or 256 QAM and OFDM: up to 4096 QAM
- Maximum DOCSIS 3.1 Data Rate: 2 x 192MHz OFDM channels provide capacity up to 5Gbps
- Maximum DOCSIS 3.0 Data Rate: 32 downstream channels provide speeds up to 1372Mbps
- Symbol Rate: 5361 Ksps
- RF (cable) Input Power:
  - -15 to +15dBmV (64/256 QAM)
  - -6 to +15dBmV (4096 QAM)
- Input Impedance: 75 Ω

Upstream*

- Frequency Range: 5MHz ~ 42MHz/85MHz switchable
- Modulation: QPSK or 8/16/32/64/128 QAM and OFDMA: up to 4096 QAM
- Maximum DOCSIS 3.1 Data Rate: 2 x 96MHz OFDMA channels provide capacity up to 2Gbps
- Maximum DOCSIS 3.0 Data Rate: 8 upstream channels provide speeds up to 246Mbps
- Symbol Rate: 160, 320, 640, 1280, 2560, 5120 Ksps
- RF (cable) Output Power:
  - A-TDMA/S-CDMA (one channel): +65dBmV
  - OFDMA: +65dBmV

Security

- DOS (denial of service) attack protection

Device Management

- Web-based graphical user interface
- CLI Management
- Remote Upgrade
- SNMP v1, v2c, v3
- Serial console (optional)
- Syslog

Regulatory

- UL/FCC Class B, Energy Star Certified

Voice

- PacketCable 1.5 (NCS) or 2.0 (IMS/SIP) compatible
- Line Voltage On-hook: -48 Volts, Loop Current: 20mA/41mA, Ring Capability: 2K ft., 5REN, Hook State: Signaling Loop Start
- DTMF Tone Detection, T.38 Fax Relay (G.711), Echo Cancellation (G.168) / Silence Suppression, Voice Active Detection and Comfort Noise Generation
- G.722 codec, WB SLIC

Physical and Environmental

- Dimensions: 70.8mm, 2.8 inches (W), 215mm, 8.46 inches (H), 170mm, 6.7 inches (D)
- Weight: 632.6g (1.4 lbs), unit only
- Power: 12V 1.5A (output), 100-240VAC, 50-60Hz, 1A Max (input), external PSU
- Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F)
- Humidity: 5 ~ 95% (non-condensing)
- Optional External Battery

* Actual speeds may vary based on factors including network configuration and speed.