let's make it easy

DOCSIS 3.0 **Data Modem**

Model: U10C035

Overview

Ubee's DOCSIS 3.0 Modem includes a number of major enhancements including channel bonding and IPv6. Four upstream and down stream channels can be virtually bonded allowing operators to deliver higher speed services to subscribers of 160Mbps downstream and 120Mbps upstream. IPv6 greatly expands the number of Internet addresses that operators may use. Ubee's DOCSIS 3.0 Modem can also simultaneously support a DOCSIS 1.x, 2.0, and new 3.0 features.

Key Features & Benefits

- **Channel Bonding**
  Helps operators maintain competitive speed advantage resulting in increased market share and greater subscriber relationships.

- **1GHz Downstream Tuner**
  Allows operators to increase the frequency spectrum, enabling new value-added services.

- **IPv6 Support**
  IPv6 is the next generation of Internet Protocol and greatly expands the number of Internet addresses that cable operators may use, allowing them to provide subscribers with more IP-based services.

- **Gigabit Ethernet**
  10/100/1000 Base-T Ethernet allows PCs to take advantage of the increased speeds offered by channel bonding.

- **Descriptive LEDs**
  Subscribers can visually determine if channel bonding and Gigabit Ethernet is enabled through dual-colored LEDs. LEDs remain consistent compared to previous generation Data products to help reduce support and training effort.

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Product Specifications

Interface
- RF Interface: External F-Connector
- CPE Interface: 10/100/1000 Base-T Ethernet RJ45

Downstream
- Frequency Range: 88 MHz ~ 1002 MHz
- Modulation: 64 / 256 QAM
- Maximum Data Rate: 160 Mbps
- RF Input/Output Power: -15 to +15 dBmV
- Input Impedance: 75 Ω
- Channel Bandwidth: 6 MHz

Upstream
- Frequency Range: 5 MHz ~ 42 MHz
- Modulation:
  QPSK, 8, 16, 32, 64, 128QAM (S-CDMA only)
- Maximum Data Rate: 120 Mbps
- RF Output Power:
  - A-TDMA (32/64QAM) +17 to 51dBmV
  - ATDMA(8/16QAM) +17to52dBmV
  - A-TDMA (8/16 QAM) +17 to 52dBmV
  - QPSK +17 to 55dBmV
  - S-CDMA +17 to 53dBmV

Network Management
- SNMP v1/v2/v2c and v3 agent Built-In

Physical Specifications
- Dimensions: (8.44" (W) x 6.48"(D) x 1.69" (H)
- Power: 12V/1A
- Power Consumption: < 10W(Full load)
- Input Power: 100-120VAC, 50-60Hz
- LEDs: Power, Send, Receive, Sync, Ready

Certifications
- Safety: UL 60950; CE/ FCC Class B
- Others: RoHS, WEEE

Standards
- DOCSIS 3.0/2.0/1.x Compliant

Environment Conditions
- Operating temp: 0˚ C to 40˚ C (32˚ F to 104˚ F)
- Humidity: 5~95% (non-condensing)
- Storage temp: -40˚ C to 70˚ C (-40˚ F to 158˚ F)

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