



let's make it **easy**

## 2-line EMTA

Model: U10C034



### Overview

The U10C034 is the latest generation EMTA from Ubee, which converges IP telephony with cable data service in one convenient device. By taking advantage of improvements in design and technology, this EMTA is highly efficient and requires only one two-cell battery, while still meeting Cable Operators' on-hook/off-hook battery requirements. Efficiency, power conservation, reliability and value are all key benefits of the Ubee U10C034 EMTA.

### Key Features & Benefits

- **LowPower Consumption**

Achieves same battery talk times as previous generation EMTAs while using less power.

- **Local and Remote access via HTML, Telnet/SSH, and SNMP**

Provides technicians easy access for supporting the product in the field. Allows for remote configuration via Telnet, SNMP, HTML and TFTP.

- **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.

- **300MHz/800DMIPS Processor**

Two and a half times faster than previous generation EMTAs with increased CPU power for handling advanced applications and multiple codecstoday and in the future.

- **Advanced Diagnostics**

Provides web-based and SNMP ability to conduct loopback and telephony port diagnostics for ease in troubleshooting inside wiring.

- **Multiple Protocol Support**

Supports PacketCable(NCS) and SIP for Cable Operator flexibility in deployments.

### Interface

- RF Interface: External F-Connector
- CPE Interface: USB 1.1, 10/100 Base-T Ethernet RJ-45, 2 RJ-11 Ports

### Standards

- DOCSIS 2.0/1.1/1.0 Certified
- PacketCable 1.5/1.0 Certified

### Downstream

- Frequency Range: 88MHz ~ 860MHz
- Modulation: 64 / 256 QAM
- Maximum Data Rate\*:
  - 30Mbps/sec (64QAM)
  - 42.8Mbps/sec (256QAM)
- Symbol Rate: 5.057/5.361/Msymbols/sec
- RF Input/Output Power: -15 to +15 dBmV,
- Impedance: 75  $\Omega$
- Channel Bandwidth: 6 MHz

### Upstream

- Frequency Range: 5MHz ~ 42MHz
- Modulation: A-TDMA:QPSK, 8, 16, 32, 64QAM  
S-CMDA:QPSK, 8, 16, 32, 64, 128QAM
- Maximum Data Rate\*:
  - 0.32 ~ 10.24Mbps (QPSK)
  - 0.64 ~ 20.48Mbps (16QAM)
  - 0.96 ~ 30.72Mbps (64QAM)
- Symbol Rate: 160, 320, 640, 1280, 2560, 5120 Ksymbols/sec
- RF Input/OutputPower A-TDMA:
  - 8dBmV ~ + 58dBmV(QPSK)
  - 8dBmV ~ + 55dBmV(QAM)
  - 8dBmV ~ +54dBmV (32/64)

### Advanced Features

#### Advanced 2.0+ Features

- Noise Immunity technology delivers multiple dB enhanced robustness in noisy plant conditions
- Packet accelerator improves throughput efficiency up to 3x
- Performance enhancement leads to over 30% in creased upstream and downstream performance

### VoIP Features

- Line Type: Two-RJ-11
- Line Voltage On-hook: -48 Volts
- Loop Current: 25mA to 40mA
- Ring Capability: 5REN
- Hook State Signaling: Loop start
- Supports G.711u,a /G.723 5.3,6.3k / G.726 16,32,40k /G.728 16k / G.729, A,E / BV-16/ iLBC / T.38 / DTMF Relay (RFC2833)
- RTP / RTCP for Voice Stream Control
- Dual Mac built-in and Dual DHCP IP
- Dynamic Qos For Voice Stream IP Precedence and Signaling Protocol
- CLASS Call and VoiceMail Features Support
- Supports G.168 Echo Cancellation
- DTMF / Pulse Detection and Generation

### Security Features

- AES Encryption for Voice Stream Security
- IPSEC for Voice Signaling Security
- Kerberos/SNMPv3 for MTA provisioning

### Network Management

- Embedded DHCP / TFTP / DNS and ToDclient
- Embedded Telnet and Web Server
- 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
- Battery-One battery slot-One two Cell Lithium-ion-8 Hours (on-hook) 5 Hours (off-hook)

### Environment Conditions

- Operating temperature: 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)

### Certifications

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

\*Actual speeds will vary based on factors including network configuration and speed



www.ubeeinteractive.com  
1.888.390.8233