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# Wireless EMTA

Model: U10C022

## Overview

The Ubee Wireless EMTA incorporates the functionality of a data modem, router, wireless gateway and MTA into one device. It was the first WEMTA approved by a major U.S. MSO and is field proven as a quality Home Networking device. RIP routing, VPN and static routing functionality is also supported, making this a great product for small business customers as well. Ubee's years of experience in providing broadband technologies to service providers along with over 10 million cable modems sold worldwide has helped to create a product specifically designed with the MSO in mind. Convergence, support and value are all key benefits of the Ubee U10C022 Wireless EMTA.



### Key Features:

- Robust routing capabilities of RIP, VPN and static routing
- Integrated voice, data and wireless
- Advanced Diagnostics
- Multiple SSIDs
- AES and IPSEC Security

### Benefits:

- Enables value added product offerings for business that require commercial routing capabilities
- Reduces OPEX, by eliminating the need for multiple devices in the home or office. Enables Home Networking product offerings for Cable Operators
- Provides web-based and SNMP ability to conduct loopback and telephony port diagnostics for ease in troubleshooting inside wiring
- Allows Business or Residential users the ability to create and manage separate networks for guests, which increases the value of the offering from the MSO
- Provides high level security of voice stream and signaling



## Product Specifications

### Hardware

- Cable Interface: F-Connector, female
- CPE Network Interface:
  - USB 1.1 and 10/100 Based-T RJ-45 Port
  - 2 RJ-11 Ports
- Dimensions: 8.48"(W) x 2.28"(H) x 5.65"(D)
- Power Consumption: Maximum 8W (Full Load)
- Power Supply: 15V @ 1.3A
- Input Power: 100-240 VAC, 50-60 Hz
- Operating Temperature: 0° C to 40° C (32° F to 104° F)
- Operating Humidity: 5 to 95% (non-condensing)
- Battery: Lithium ion
  - 8.0 hours on-hook
  - 6.0 hours off-hook (one line)
- Tuner: Low power consumption tuner

### Telephony

- Line Type: RJ-11 \* 2
- Ring Voltage: 270 VAC, pk-pk (tip-ring)
- Line Voltage: Onhook: -48 Volts
- Loop Current: 20mA / 41mA
- Ring Capability: 2K ft., 5REN
- Hook State: Signaling Loop start

### Wireless

- Standards: IEEE 802.11; 802.11b/g; DSSS
- Transmit Power: 802.11b -17.5dBm +/- 2.5dB  
802.11g 13.5dBm +/- 2.5dB
- Operating Frequency: 2400~2497MHz ISM band
- Data Rate: 1, 2, 5.5, 6, 9, 11, 12, 24, 36, 48, &54 Mbps
- Frequency Range: 11 channels (2.412 to 2.462GHz)
- Antenna: External and detachable

### 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:
  - 17 to +15dBmV (64 QAM),
  - 15 to +17dBmV (256 QAM)
- Input Impedance: 75 Ω
- Channel Bandwidth: 6 or 8 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/Output Power:
  - A-TDMA: +8dBmV ~ + 58dBmV(QPSK)
  - +8dBmV ~ + 55dBmV(QAM)
  - +8dBmV ~ +54dBmV (32/64
  - S-CDMA: +8dBmV ~ +53dBmV

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



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