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DOCSIS 3.1 Cable Modem Model: UBC1302-BA00

The *UBC1302-BA00 DOCSIS 3.1 Cable Modem* marks the introduction of Ubee's next generation DOCSIS 3.1 products. The UBC1302 integrates a DOCSIS 3.1 cable modem and 4-port gigabit Ethernet switch.

Key Features & Benefits:

- High Speed The UBC1302 delivers increased bandwidth for subscriber's multimedia and high-bandwidth applications.
 Network Interface - Four 10/100/1000 Ethernet ports provide high-speed LAN capability. Link aggregation group (LAG)
 - DOCSIS 3.1:
 - **Downstream:** 108 to 1002 MHz, up to 2x OFDM, and up to 32 SC-QAM channels provide capacity up to 5Gbps
 - Upstream: 5 to 42/85 MHz (42/85 switchable), up to 2x OFDMA, and up to 8 SC-QAM channels provide capacity up to 2Gbps
 - DOCSIS 3.0: 32 downstream and 8 upstream channels provide speeds of up to 1372Mbps downstream and 246Mbps upstream.

*Actual speeds will vary based on factors such as network configuration and service tier.

Let's Make it Easy

Combined with world-class engineering and manufacturing, Ubee's core principle it to make it easy to work with our products. Through the entire life cycle of our devices from implementing requirements, staging, and deployment, to operational support and the user experience - Ubee makes it easy. Contact a Ubee Product Specialist for more information on the UBC1302-BA00 DOCSIS 3.1 Cable Modem.

- Network Interface Four 10/100/1000 Ethernet ports provide high-speed LAN capability. Link aggregation group (LAG) support across the four 1GigE ports provide total PHY speeds of up to 4 Gbps. IPv4 and IPv6 support enables increased access capability and improved security.
- Full Band Capture For channel lineup flexibility. "No block" tuner restrictions such as all DOCSIS bonding in certain frequency window; keeps voice service on existing channels.
- Diagnostic Capability Integrated high performance spectrum analyzer helps reduce troubleshooting costs.



Ubee UBC1302 D3.1 Cable Modem



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UBC1302-BA00 Product Specifications

Interfaces & Standards

- Cable: F-Connector, female
- LAN: 4 10/100/1000 Mbps RJ-45 port
- DOCSIS 3.1 certified
- DOCSIS 1.0/1.1/2.0/3.0 certified

Regulatory

UL/FCC Class B, Energy Star Certified

Security

DOS (denial of service) attack protection

Device Management

- Web-based graphical user interface
- SNMP v1, v2c, v3
- Serial console (optional)
- Syslog
- Telnet console
- Spectrum analyzer
- TR-069 capable

Physical & Environmental

- Dimensions: 50mm, 1.9 inches (W), 143mm, 5.6 inches (L), 195mm, 7.7 inches (H)
- Weight: 400g (14.1 oz)
- Dower: 12V 1.5A, external PSU
- □ Operating Temperature: 0°C ~ 45°C (32°F ~ 113°F)
- □ Storage Temperature: -20°C ~ 70°C (-4°F ~ 158°F)
- Humidity: 5 ~ 95% (non-condensing)

Downstream^{*}

- Frequency Range: 108MHz/1002MHz
- Capture Bandwidth: 1GHz
- 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 QAM), -15 to +15dBmV (256 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: TDMA/ATDMA: +8dBmV to +54dBmV (32/64 QAM), ATDMA Only: +8dBmV to +55dBmV (8/16 QAM), +8dBmV to +58dBmV (QPSK), S-CDMA: +8dBmV to +53dBmV (all modulations)
 - * Actual speeds vary based on factors including network configuration and speed.



