# DOCSIS 3.1 Modem

## Model: UBC1325CA00

The ***UBC1325CA00 DOCSIS 3.1 Data Modem*** provides a 2.5G Ethernet port to meet the ever-increasing bandwidth demands of the modern home.

### Key Features & Benefits:

**High Speed* -** The UBC1325CA00 modem delivers increased bandwidth for subscriber's multimedia and high-bandwidth applications.

- **DOCSIS 3.1:**
  - **Downstream:** 108 to 1002MHz, 2x 192MHz OFDM channels provide capacity up to 5Gbps
  - **Upstream:** 5 to 42/85MHz (switchable), 2x 96MHz OFDMA 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.
- **IEEE 802.3bz:** Supports LAN speeds up to 2.5G.

**Full Band Capture -** For channel lineup flexibility. "No block" tuner restrictions such as all DOCSIS bonding in certain frequency windows.

**Diagnostic Capability -** Integrated high performance spectrum analyzer helps reduce troubleshooting costs.

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

***UBC1325CA00***
***DOCSIS 3.1 Data Modem***

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# UBC1325CA00 Product Specifications

## Interfaces & Standards

- Cable: F-Connector, female
- LAN: One 100/1000/2500 Mbps RJ-45 port with MDI/MDIX
- DOCSIS 3.1 certified
- DOCSIS 1.0/1.1/2.0/3.0 certified
- UL/FCC Class B, ENERGY STAR® certified

## Security

- DOS (denial of service) attack protection

## Device Management

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

## Physical & Environmental

- Dimensions: 50mm, 1.9 inches (W), 143mm, 5.6 inches (D), 195mm, 7.7 inches (H)
- Weight: 400 g (14.1 oz), unit only
- Power: 12 V 1.5A (output), external PSU (power supply unit)
- Operating Temperature: 0°C ~ 45°C (32°F ~ 113°F)
- Operating 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 (64/256 QAM) (SC-QAM)
  - -6 to +15dBmV (4096 QAM) (OFDM)
- Input Impedance: 75 Ω

## Upstream*

- Frequency Range: 5MHz~45MHz/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 Output Power (single channel): TDMA: +17dBmV to +61dBmV, S-CDMA: +17dBmV to +56dBmV
- RF (cable) Output Power:
  - A-TDMA/S-CDMA (one channel): +65dBmV (SC-QAM)
  - OFDMA: +65dBmV

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

## Application Example