



DOCSIS 3.1 Outdoor Cable Modem for Small Cell Backhaul



ODIN1112

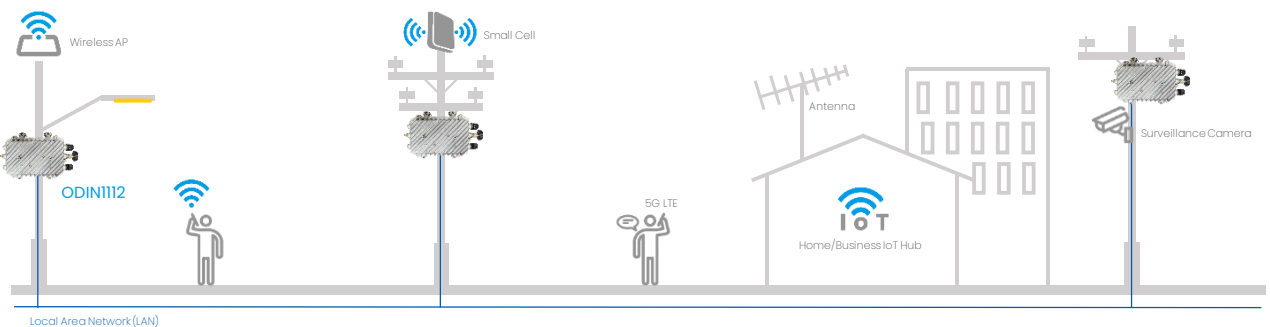
ODIN1112 is the world's first DOCSIS 3.1 modem to support DOCSIS Time Protocol (DTP), providing precise network timing to make mobile backhaul over DOCSIS a reality. Pair the ODIN1112 with a small cell gateway and leverage your existing real estate of DOCSIS networks to roll out lucrative wireless services at a significantly reduced cost.

 DOCSIS 3.1 DOCSIS 3.1 speeds up to 10 Gbps* downstream	 2.5GigE Ultra-fast 2.5GigE wired ports	 Available to power external devices over PoE
 PTP Precise synchronization of clocks for network communication	 DTP For small cell deployments and wireless backhaul over DOCSIS	Advanced feature

Key Features

- DTP (DOCSIS Time Protocol) for small cell deployments and wireless backhaul
- PTP (Precision Time Protocol)
- DOCSIS 3.1/3.0/2.0/1.1 with EuroDOCSIS compliant
- DOCSIS 3.1 2x2 OFDM
- DOCSIS/EuroDOCSIS 3.0 32x8 channel bonding
- Switchable 5-85/5-204 MHz
- Supports I588v2 and SyncE
- High bandwidth, environmental hardened cable modem
- PoE provides power, along with data, over CAT-6 cabling to connected devices
- Extensive operator control via configuration file and SNMP
- Full Dual Stack IPv4/IPv6 Support

Application



Specifications

ODIN1112

Reception-Demodulation

- DOCSIS 3.1/3.0/2.0 with EuroDOCSIS compliant
- DOCSIS 3.1 Demodulation: Multi-carrier OFDM 16 to 4096QAM
- DOCSIS 3.1 Data Rate: Up to 2.5Gbps*
- DOCSIS/EuroDOCSIS 3.0 Demodulation: 64QAM, 256QAM
- DOCSIS/EuroDOCSIS 3.0 Data Rate: Up to 1.3/1.7Gbps with 32 Bonded Downstream Channels
- Frequency (edge-to-edge): 108-1218MHz
- Channel Bandwidth: 6MHz/8MHz (DOCSIS/EuroDOCSIS)
- Signal Level: -15dBmV to 15dBmV

Transmitter-Modulation

- DOCSIS 3.1/3.0/2.0 with EuroDOCSIS compliant
- DOCSIS 3.1 Modulation: Multi-carrier OFDMA BPSK to 4096QAM
- DOCSIS 3.1 Data Rate: Up to 1Gbps with 2 OFDMA 96MHz Upstream Channels
- DOCSIS/EuroDOCSIS 3.0 Modulation: QPSK, 8QAM, 16QAM, 32QAM, 64QAM, and 128QAM (SCDMA only)
- DOCSIS/EuroDOCSIS 3.0 Data Rate: Up to 320Mbps with 8 bonded Upstream Channels
- Frequency: Switchable 5-85/5-204MHz
- Upstream Transmit Signal Level: +11 to 65dBmV

Management

- Protocol Support: TFTP, SSHv2, SNMP v2, v3
- Web-based GUI Control, Configuration and Management
- Power-on Self-Diagnostic
- MIB II/MCNS MIB
- Hitron-proprietary MIBs for Extended Support on DOCSIS

DOCSIS Time Protocol

- IEEE 802.3 bt
- Full Timing Support: ITU G.8275.1, G.8273.2
- Partial Timing Support: G.8275.2, G.8273.4

Interfaces

- 1x RF F-Type 75Ω Female Connector
- 2x RJ-45 2.5GBASE-T Ethernet Ports
- 1x GPS Antenna (for Device Location)

Mechanical

- Waterproof: IP67
- Dimensions: 290mm (W) x 126mm (H) x 220mm (D)
- Net Weight: 4,600 +/- 100g

Electrical

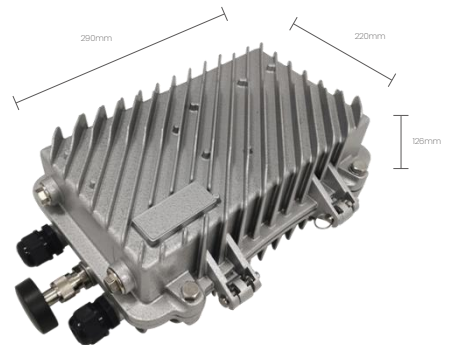
- External Power Supply
 - Input: 45-100VAC 50/60Hz
 - Output/Cat5 Feeding: 54VDC
- PoE Output: 180W in total
- Surge Protection
 - RF Input sustains at least 4KV
 - Ethernet RJ-45 sustains at least 4KV

Environmental

- Operating Temperature: -40°C (-40°F) ~ 60°C (140°F)
- Operating Humidity: 10% ~ 90% (Non-condensing)
- Storage Temperature: -40°C (-40°F) ~ 70°C (158°F)

Regulatory Compliance

- RoHS
- FCC Part 15 Class B Subpart B, Part 15.247, Part 15.407, Part 2.1091
- UL 62368-1
- cUL 62368-1-14
- CE



Specifications subject to change without further notice. Product photo may differ.

DOCSIS 3.1 is a CableLabs standard for high speed Internet access that defines support for up to 10 Gbps downstream and 1 Gbps upstream. Actual cable operator network speeds will vary and will be less than the calculated maximum possible speeds. Actual upload and download speeds are affected by several factors including but not limited to: the capacity of your cable operator's network, the services offered by your cable operator, cable and Internet network traffic, your computer equipment etc. Final speeds will also be limited by each device and the quality of its connection to the modem or router.

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