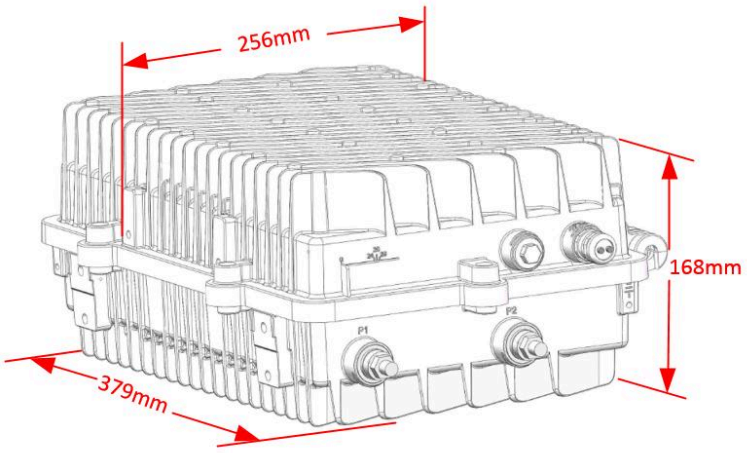
Slingshot Node 3.0 CMTS

Integrated Fiber-To-Coax Cable Access

The Diablo Data Slingshot Node 3.0 is a field-deployable cable modem termination system (CMTS) that connects an optical service-network uplink to a coaxial cable distribution network. Its modular design combines DOCSIS processing, RF amplification and power in an IP67 enclosure, with four RF outputs for connecting the local cable plant.



Slingshot Node 3.0 CMTS Enclosure

Product Features

- **Channel Capacity.** Supports up to 32 SC-QAM downstream channels, one OFDM downstream channel and up to 8 ATDMA upstream channels.
- **Modem Licensing.** Choose a license for up to 512 or 1,024 registered modems.
- **Flexible Optical Uplinks.** Supports Ethernet and PON uplink options through a pluggable SFP/SFP+ interface.
- **Four RF Outputs.** Provides combined upstream/downstream connections, with RF attenuation, equalization and monitoring facilities.
- **Field-Serviceable Design.** Uses separate DOCSIS, RF and power modules, including a quickly replaceable RF amplifier component.
- **Deployment Options.** Supports local AC or coaxial line powering, with strand, bar and wall mounting options.

Slingshot Node 3.0 CMTS

System Features

Multiservice Support	DOCSIS service flows, EQAM and PacketCable/PCMM for data, video and voice applications.
IP And Provisioning	IPv4/IPv6; DHCP/DHCPv6 relay and snooping, prefix delegation, local provisioning and TFTP proxy.
VLAN And L2VPN	VLAN tagging, subnet-based VLAN assignment and Layer 2 VPN support.
Quality Of Service	Service classes and service-flow management; BE, NRTPS, RTPS, UGS-AD and UGS scheduling.
Channel Management	Channel bonding, restricted/general load-balancing groups and bandwidth admission control.
Modem And CPE Management	Modem/CPE status and queries, remote modem queries, flap lists and modem channel steering.
RF Diagnostics	Upstream noise/spectrum monitoring, channel-quality statistics and upstream pre-equalization.
RF Resilience	Configurable upstream automatic frequency hopping and spectrum-group management.
Multicast	Multicast authorization and group-management controls.
Network Security	BPI+, source-address verification, IP firewall and modem MAC allow/block lists.
Administrator Access	Local users and TACACS+/RADIUS authentication and authorization.
Management And Telemetry	CLI, web GUI, SSH, SNMP, Syslog/traps and IPDR reporting.
Maintenance	CLI/web firmware upgrades, configuration backup and zero-touch deployment support.

Software features depend on firmware and configuration.

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Hardware And Channels

SC-QAM Downstream	Up to 32 channels
OFDM Downstream	1 channel
Registered Modem License Options	512 or 1,024 registered modems
ATDMA Upstream	Up to 8 channels
Enclosure Dimensions (W × D × H)	379 × 256 × 168 mm
Weight	Less than 10 kg
Enclosure Rating	IP67
Maximum Power Consumption	75 W
RF Connections	4 mixed upstream/downstream RF outputs
RF Module Passband	5 MHz–1 GHz
RF Split Options	42/54, 65/87 or 85/108 MHz; replaceable diplexers
Optical Uplink	1 SFP+ slot; GE/10GE or supported PON module
Management Connections	RJ45 GE management and RJ45 serial console
Power Supply Options	110/220 V AC local power or 60/90 V AC coaxial line power
Mounting Options	Strand/bar mounting; optional bracket for bar or wall installation

Select uplink optics, RF split, power supply and mounting accessories for the intended installation. Options depend on the supplied configuration. Specifications are subject to change without notice.