

WATCHDOG
BY APOLLO
INFOWAYS



100GbE Coherent Switch

WD-AS7716-24SC

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@WatchDog2022



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The Cassini packet transponder enables network operators to easily extend and migrate existing metro and long-haul Dense Wavelength Division Multiplexing (DWDM) networks to add new 100G capacities and extend inter-datacenter and Layer3 services.

The Cassini is a 1.5 RU form factor with system throughput of 3.2 Tbps based on Broadcom StrataXGS™ Tomahawk™ Plus switch silicon. The Cassini design offers sixteen fixed 100 Gigabit Ethernet QSFP28 ports, plus eight linecard slots to incorporate a flexible mix of additional 200 GbE ports or DCO optical ports based on coherent DSP and optical transceivers from leading optical technology partners.

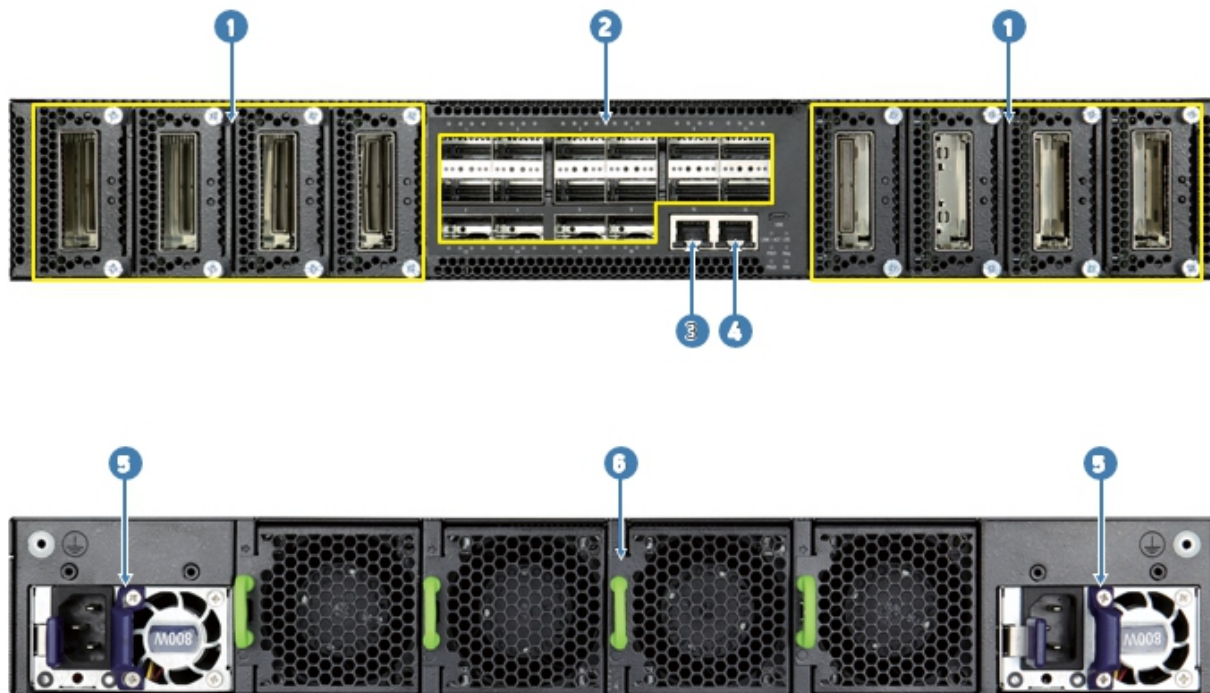
This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System (NOS) software, including the open source plus commercial NOS offerings.

Cassini supports Ethernet and optical line cards with MACsec security to enable secure encrypted connections on both client-side links and metro or wide area connections.

Key Features and Benefits

- High Capacity: Full 3.2 Tbps switching fabric.
- Metro Transmission: 200G 16QAM coherent plug-in card.
- Cost Effective: Combined switch and transport function in one box.
- Open and Flexible: Line-side plug-in (CFP2-DCO, 2 x QSFP28). Non-coherent/coherent subscription ratios of 1:1 to 15:1 (also grey fiber/color fiber subscription ratios), "plug-and-play" with automatic conditioning of the analogue line.
- Easier to Use: Transport library supports API functionalities; automated monitoring, failure report, etc. Abstracts complexity of L1 transmission.
- Long-Life Reliability: Redundant 60 mm fan (3+1 dual-rotor fan assemblies). Redundant Power (1+1 PSU).
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.

Interfaces



Discription

- | | |
|------------------------------------|---------------------------------------|
| 1. 8 x DCO cards | 2. Console port |
| 3. 16 x QSFP28 100G Ethernet ports | 4. PSUs |
| 5. Management port | 6. Hot-swappable 3 + 1 redundant fans |

Ports

- Switch ports:
16 x QSFP28 ports. Each Port supports 1 x 40/100 GbE
8 line-card slots for QSFP28, DCO modules
- Management ports on port side:
1 x RJ-45 serial console
1 x RJ-45 100/1000BASE-T management
1 x USB Type A storage

Key Components

- Switch Silicon: Broadcom BCM56965 Tomahawk+
- CPU Modules:
Intel® Xeon® D-1518 quad-core x86 Processor
DDR4: SO-DIMM 8 GB x 2
SPI Flash: 16MB
m.2 SSD: 32 GB MLC

Performance

- Switching Capacity: 6.4 Tbps full duplex
- Jumbo frames support up to 9216 Bytes
- Subject to NOS:
MAC Addresses: 8 K min./136 K max.
VLAN IDs: 4 K
IPv4: 8 K min./84 K max. host entries; 16 K LPM entries with TCAM-only mode
IPv6: 4 K min /36 K max. host entries; IPv6/64= 8 K TCAM-only mode

Physical and Environmental

- Dimensions (WxDxH): 44.25 x 55.0 x 6.6 cm
(17.42 x 21.65 x 2.6 in.)
- Operating Temperature: 0°C to 45°C (32°F to 113°F)
- Storage Temperature: -40° C to 70° C (-40° F to 158° F)
- Operating Humidity: 5% to 95% (non-condensing)

Regulatory Compliance

- EMI
CE Mark
EN55032 Class A
EN55024
EN61000-3-2
EN61000-3-3
- FCC Part 15 Subpart B Class A
- Environmental:
Temperature: IEC 68-2-14
Vibration: IEC 68-2-36, IEC 68-2-6
Shock: IEC 68-2-29
Drop: ISTA 2A
- RoHS 2.0 Compliant

Warranty

Please check www.mywatchdog.in for the warranty terms in your country.

For More Information

To find out more about WatchDog products and solutions, visit www.mywatchdog.in

| Weight | WD-AS7716-24SC | DCO | QSFP28 |
|------------|----------------|---------|---------|
| Net Weight | 11.6kg | 0.372kg | 0.322kg |

Software

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with the following NOS options: open source options, plus commercial NOS offerings.

LEDs

- QSFP28 Port LEDs: Link Status, Activity, Speed
- Ethernet Management Port LED: Link Status, Activity
- System LEDs: Diagnostic, Locator, PSU and Fan Status
- Modules LED: Link Status, Activity, Speed

Power

- PSUs: 2 redundant, load-sharing, hot-swappable AC
- Input Voltage: 90 to 240 VAC at 50-60 Hz.
- PSU Efficiency: Up to 93% for AC PSUs

Full loading, the total power consumption is approximately 1100 W.

- Under the operation of full loading, the system of AS7716-24SC can support 1 PSU operation if the VAC is set up at high line mode.
- It's necessary to use 2 PSUs when the VAC is configured at low line mode.