

# OcNOS<sup>®</sup> Optical Transport Network (OcNOS-OTN)

Data Sheet  
November 2020

## 1.0 Overview

OcNOS (Open Compute Network Operating System) is a robust, programmable and innovative operating system, featuring a single software image that runs across the entire portfolio of Open Compute platforms from leading network device vendors. This guarantees consistent operations, workflow automation and high availability, while significantly reducing operational expenses.

OcNOS borrows heavily from the popular ZebOS line of products, which provides a rich feature density and robustness that has been built up over the years and validated in thousands of diverse customer networks. OcNOS provides industry standard CLI, supports standard MIBs and other standard operation and management tools. Its integrated centralized management and provisioning layer allows for transaction-based configuration and device feature modelling.

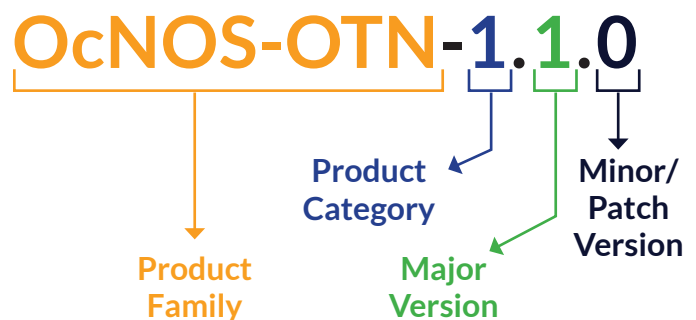
OcNOS is a modular, multi-tasking network operating system, with tight integration capabilities on commodity hardware. This design allows for scaled and performance critical deployments.

The OcNOS-OTN on Cassini is a modular and cost-effective solution for rolling out 100G services or increasing existing network capacity. The device has eight 200G pluggable drawers

and pluggable optical modules, delivering up to 1.6T in a 1.5U chassis, and enabling pay-as-you-grow architecture.

## 2.0 IPI Product Release Version

Release versions are denoted using an integer to indicate Major, Minor, and Hotfix / Patch.



**Product Name:** Refers to the IPI Product Family (OcNOS-OTN, OcNOS-SP, DVE etc.)

**Product Class:** Refers to IPI Product Category. In this case, it is 1 Rack Unit (1RU)

**Major Version:** New customer-facing functionality and represents a significant change to the code base or change of direction in the product.

**Minor Version:** Enhancements/extensions to existing features or requests to meet marketing requirements.

### 3.0 Features on OcNOS-OTN Release

The table below lists the new software features in the latest OcNOS-OTN available release. Note, the following mentioned features are only indicative and the detailed feature list may vary. Please refer to Feature Matrix for complete feature list on supported ODM platforms.

#### 3.1 OcNOS-OTN 1.1.0: Technical Specifications – Feature Support per SKU

The key new feature added in this release is the L1 cross-connect application i.e. support for creating a transparent L1 connection between the input and output ports.

FEATURE	SUB-FEATURE	OCNOS-OTN-IPBASE	OCNOS-OTN-XCONNECT
Layer 1	xConnect	No	Yes
Layer 2 Switching	VLAN	Yes	No
	STP	Yes	No
	Multiple Spanning Tree Protocol (MSTP)	Yes	No
	Rapid Spanning Tree (RSTP)	Yes	No
	Link Aggregation	Yes	Yes
	BPDU Protect	Yes	No
	Root Guard	Yes	No
Layer 3 Routing	Ethernet ARP	Yes	No
	Transmission of IP Datagrams over Ethernet	Yes	No
	IP Subnetting	Yes	No
	Classless Inter-Domain Routing (CIDR)	Yes	No
	Requirements for IPv4 Routers	Yes	No
	Route Re-distribution	Yes	No
	VLAN Routing	Yes	No
	BGP	Yes	No
	OSPF	Yes	No
	BFD	Yes	No
VxLAN with EVPN	L2 EVPN for VxLAN	Yes	No
Multicast	PIM	Yes	No
	IGMP	Yes	No

FEATURE	SUB-FEATURE	OCNOS-OTN-IPBASE	OCNOS-OTN-XCONNECT
Management	Role based CLI management and access	Yes	Yes
	CLI access via console, telnet and SSH	Yes	Yes
	Authentication using TACAS+/RADIUS Client	Yes	Yes
	Extended ping and traceroute	Yes	Yes
	SNMP v1, v2, and v3	Yes	Yes
	sFlow	Yes	No
	Error Disable	Yes	No
	Debounce Timer	Yes	No
	DHCP Client	Yes	No
	DHCP Relay	Yes	No
	NTP	Yes	Yes
	Syslog	Yes	Yes
	File Upload/Download using FTP/TFTP/SFTP/SCP	Yes	Yes
	Management VRF	Yes	Yes
	Loopback and VTY Based ACL	Yes	Yes
Licensing	Yes	Yes	
Hardware Specific Features	Dynamic Load Balancing (RTAG7 Hash)	Yes	Yes
	Port Breakout	Yes	Yes
Chassis Monitoring	Temperature monitor	Yes	Yes
	Fan control	Yes	Yes
	Power Monitoring	Yes	Yes
	CPU load monitoring	Yes	Yes
	Board information (EEPROM)	Yes	Yes
Digital Diagnostics Monitoring (Transceiver)	Temperature monitor	Yes	Yes
	Power Monitoring (Power, Current, Voltage)	Yes	Yes
Coherent Optics	DCO Module Support	Yes	Yes
	Module specific attributes	Yes	Yes
	Network interface specific configuration and monitoring attributes	Yes	Yes
	Host interface specific attributes	Yes	Yes
	DDM Support	Yes	Yes

## 4.0 Solution Ordering Guide

### 4.1 Platforms Supported per SKU

VENDOR PLATFORM	CHIPSET	SPEED/INTERFACE	CPU	OCNOS-OTN-IPBASE (base sw), OCNOS-OTN- CFP2-WDM (slot sku)	OCNOS-OTN- XCONNECT (base sw), OCNOS-OTN- XC-CFP2-WDM (slot sku)
Edgecore AS7716-24SC	Tomahawk Plus	16 ports 100G, each splittable into 4x10G or 2x50G or 4x25G. 8 Coherent slots, 200/100G each	Intel® Xeon® D-1518 quad-core x86 Processor	Yes	Yes

### 4.2 Maintenance & Support

SKU	MAINTENANCE & SUPPORT
OCNOS-MS-1Y	1-year Maintenance & Support with Upgrades - Includes Technical support resources, software updates & upgrades, email and phone support, access to Support web site including case management system. Access to technical support team 24 x 7 for Severity 1 issues, normal business hours for all other issues. "Upgrade" means a version change for the licensed software with substantial improvements, enhancements and bug fixes.
OCNOS-MS-3Y	3-year Maintenance & Support with Upgrades - Includes Technical support resources, software updates & upgrades, email and phone support, access to Support web site including case management system. Access to technical support team 24 x 7 for Severity 1 issues, normal business hours for all other issues. "Upgrade" means a version change for the licensed software with substantial improvements, enhancements and bug fixes.
OCNOS-MS-5Y	5-year Maintenance & Support with Upgrades - Includes Technical support resources, software updates & upgrades, email and phone support, access to Support web site including case management system. Access to technical support team 24 x 7 for Severity 1 issues, normal business hours for all other issues. "Upgrade" means a version change for the licensed software with substantial improvements, enhancements and bug fixes.
OCNOS-MS-1Y-Premium	1-year Maintenance & Support with Upgrades - Includes Technical support resources, software updates & upgrades, email and phone support, access to Support web site including case management system. Access to technical support team 24 x 7 for all issues. "Upgrade" means a version change for the licensed software with substantial improvements, enhancements and bug fixes.
OCNOS-MS-3Y-Premium	3-year Maintenance & Support with Upgrades - Includes Technical support resources, software updates & upgrades, email and phone support, access to Support web site including case management system. Access to technical support team 24 x 7 for all issues. "Upgrade" means a version change for the licensed software with substantial improvements, enhancements and bug fixes.
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## 5.0 Relevant Links

Additional information about the following documents is available on the IP Infusion website (<https://www.ipinfusion.com/products/ocnos/>)

- Feature Matrix
- Configuration Guide
- Supported Optical Transceivers & Cables
- Platform Datasheets

## More Information

For more information about the OcNOS Optical Transport Network, contact your IP Infusion sales representative.

### ABOUT IP INFUSION

IP Infusion, a leader in disaggregated networking solutions, delivers enterprise and carrier-grade software solutions allowing network operators to reduce network costs, increase flexibility, and to deploy new features and services quickly. IP Infusion is headquartered in Santa Clara, Calif., and is a wholly owned and independently operated subsidiary of ACCESS CO., LTD. Additional information can be found at <http://www.ipinfusion.com>

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**Phone** | +1 877-MYZEBOS  
**Email** | [sales@ipinfusion.com](mailto:sales@ipinfusion.com)  
**Web** | [www.ipinfusion.com](http://www.ipinfusion.com)

**U.S. (Santa Clara)** | +1 408-400-1912  
**Japan (Tokyo)** | +81 03-5259-3771  
**Korea (Seoul)** | +82 10 2733 3016

**India (Bangalore)** | +91 (80) 6728 7000  
**China (Shanghai)** | +86-186 1658 6466  
**EMEA** | +49 (208) 8290 6464