



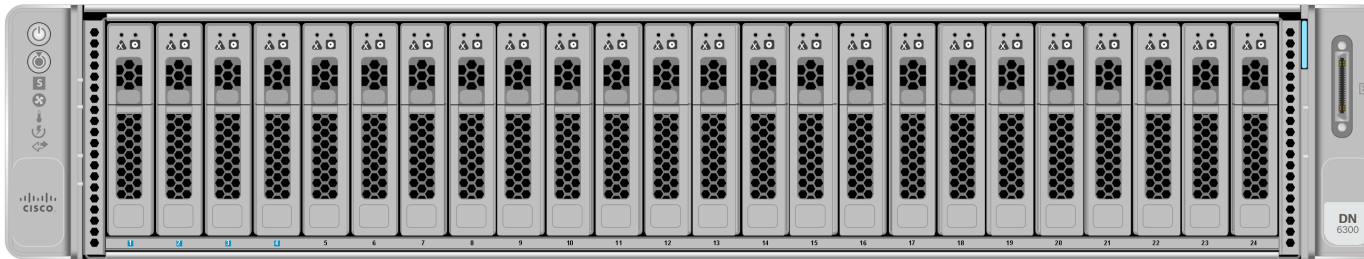
Cisco Secure Network Analytics

Data Node 6300 Specification Sheet

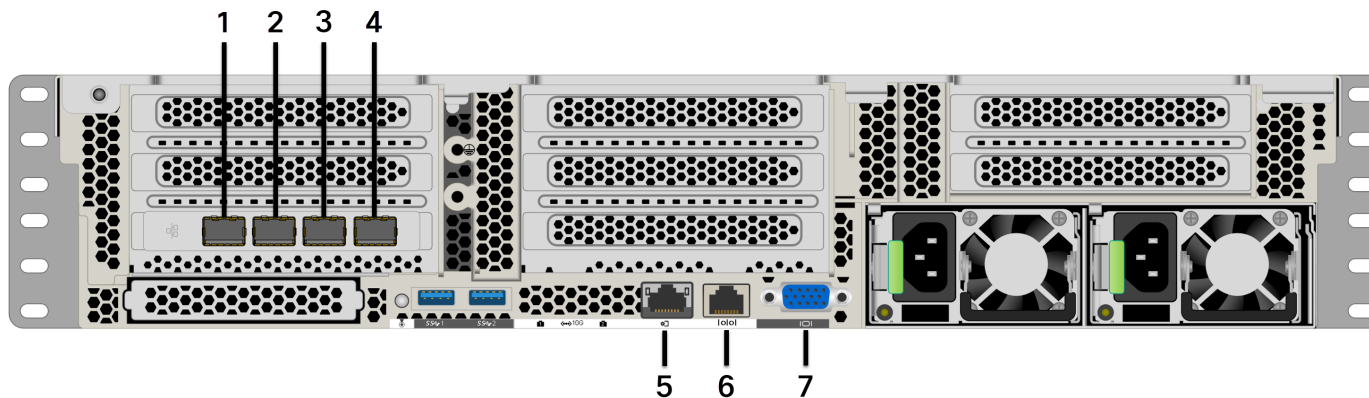


ST-DN6300-K9 Data Store

Front View - Data Node Chassis



Back View - Data Node Chassis



1	SFP+ (1/10Gbps) Ingest, Management, and Query (eth0 - management)
2	SFP+ (10Gbps) (eth1 - reserved)
3	SFP+ (10Gbps) Inter-Data Node communications (eth2 - required)
4	SFP+ (10Gbps) Inter-Data Node communications (eth3 - optional aggregation link)
5	CIMC Management (100 Mbps/1Gbps)
6	Serial Console (115200 8-N-1)
7	VGA video port (DB-15 connector)



This appliance has this general configuration. Your model may look slightly different.

Specifications

First Ship Date	June 2023
Final Ship Date	TBD
Product ID (PID)	ST-DN6300-K9
Included Hardware	The following specifications apply per Data Node hardware chassis, unless otherwise noted.
UCS Platform	UCSC-C245-M6SX
Maximum Flows per Second (fps) (Converged Analytics disabled)	1 node: Up to 1 million fps* 3 nodes and above: Up to 3 million fps*
Maximum Flows per Second (fps) (Converged Analytics enabled)	1 node: Up to 600,000 fps @ 1.3 million unique hosts* 3 node and above: Up to 600,000 fps @ 1.3 million unique hosts or up to 850,000 fps @ 700,000 unique hosts*
Maximum Data Retention period	90 days at 1,000,000 fps for a single DN 6300* 90 days at 1,500,000 fps for 3 DN 6300s* 90 days at 3,000,000 fps for 6 DN 6300s*

SFP/SFP+ Options (Management)		
SFP	GLC-SX-MMD	1000BASE-SX SFP transceiver module, MMF, 850nm, DOM
	GLC-TE	1000BASE-T SFP transceiver module for Category 5 copper wire
	GLC-LH-SMD	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM
SFP+	SFP-10G-SR-S	10GBASE-SR SFP Module, Enterprise-Class
	SFP-10G-LR-S	10GBASE-LR SFP Module, Enterprise-Class
	SFP-H10GB-CU1M	10GBASE-CU SFP+ Cable 1 Meter
	SFP-H10GB-CU2M	10GBASE-CU SFP+ Cable 2 Meter
	SFP-H10GB-CU3M	10GBASE-CU SFP+ Cable 3 Meter
SFP+ Options (Private Data)		
SFP+	SFP-10G-SR-S	10GBASE-SR SFP Module, Enterprise-Class
	SFP-10G-LR-S	10GBASE-LR SFP Module, Enterprise-Class
	SFP-H10GB-CU1M	10GBASE-CU SFP+ Cable 1 Meter
	SFP-H10GB-CU2M	10GBASE-CU SFP+ Cable 2 Meter
	SFP-H10GB-CU3M	10GBASE-CU SFP+ Cable 3 Meter

Network/NIC	<p>CIMC management port: 1 - 100Mbps/1Gbps copper</p> <ul style="list-style-type: none">• Typically unused, not required for Data Node operation. <p>Data Node ingest/management/query port: 1/10Gbps (default)</p> <ul style="list-style-type: none">• This interface is used to receive flow data from Flow Collectors to communicate with the Cisco Secure Network Analytics Manager (formerly Stealthwatch Management Console), and to return query results to the Cisco Secure Network Analytics Manager. <p>Inter-Data Node communications port: 10Gbps</p> <ul style="list-style-type: none">• These interfaces are used for communication with other Data Nodes as part of the Data Store Vertica database cluster.• Minimally one inter-Data Node interface is required.• Optionally a second inter-Data Node interface can be aggregated with the first to support redundant switch solutions. <p>Reserved ports:</p> <ul style="list-style-type: none">• Ports are unused and unsupported.
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Processor	2 @ AMD EPYC 7443 24C/48T@2.85Ghz or 4Ghz boost
Memory	16 @ 32 GB DDR4 3200
Data Storage	24 @ 1.8 TB 10K RPM SAS RAID6 (data), 2@ 240GB Data M.2 RAID1 (OS)
Rack Units	2RU
Weight	61.7 pounds (28 kg)
Dimensions	Height: 3.42 inches (8.7 cm) Width: 16.9 inches (42.9 cm) Depth: 30 inches (76.2 cm)
Power	Redundant [1050 W] AC 50/60. Auto Ranging (100V to 240V) OR Redundant [1050 W] DC. Max Input N32 A at -40 V DC. DC Input Voltage (Range: -40 to -72 VDC)
Humidity (Relative)	Operating: 10% to 90% Storage: 5% to 93%
Altitude	Operating: 0 feet to 10,006 feet (0 meters to 3,050 meters) Storage: 0 feet to 39,370 feet (0 meters to 12,000 meters)
Heat Dissipation	2070.54 BTU per hour at 50% workload (estimated)

Temperature	Operating: 50° F to 95° F (10° C to 35° C) Storage: -40° F to 149° F (-40° C to 65° C)
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* These numbers are generated in our test environments using average customer data. There are several factors that may affect your specific performance, such as number of hosts, average size of flows, and more. While we do our best to represent the data as fairly and accurately as possible, your environment may experience different limits.