DRIVENETS

DATA SHEET

FABRIC-SCHEDULED ETHERNET FABRIC SWITCH · NCF-128E

DriveNets 9300F

High-performance fabric switch for Fabric-Scheduled Ethernet clusters — deterministic, cell-based switching interconnecting up to 32K GPUs.

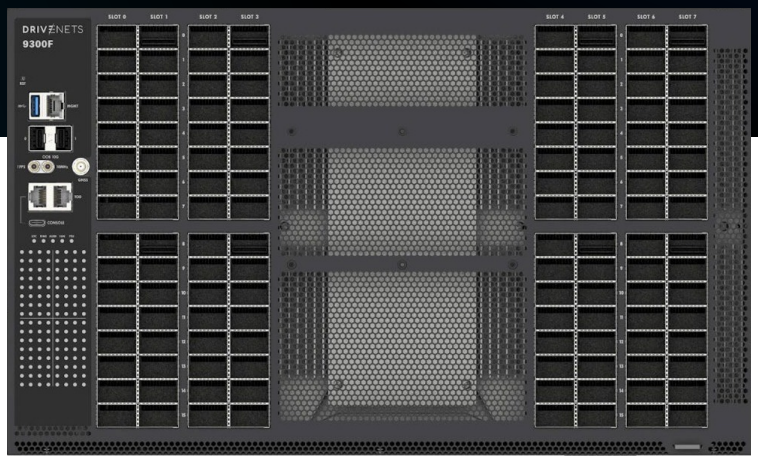
102.4 Tbps

TOTAL FABRIC CAPACITY

128 × OSFP 800G

2 × Broadcom Ramon3

Up to 32K GPUs



OVERVIEW

The DriveNets DN-9300F is a high-performance Fabric-Scheduled Ethernet fabric switch platform built on a dual-ASIC Broadcom Ramon3 architecture with 128 × OSFP 800G ports. Delivering an aggregate 102.4 Tbps of cell-based switching, it eliminates Ethernet overhead and evenly distributes traffic across all fabric links for deterministic, low-latency performance. Coupled with ASA926-18XKE, ASA926-18XKA, DN-5300R or DN-5301R leaf switches, it enables a highly efficient, scalable Fabric-Scheduled Ethernet cluster supporting AI/ML workloads at scale. Software-upgradeable 400G / 800G operation reduces total cost of ownership while providing investment protection and operational flexibility.

General

Self-routing fabric with dynamic load balancing

Single or multi-stage (three-stage) topology — scales to 2K NCPs in one system

Destination and source-based cell switching · 1588v2 PTP Class C

Security & Management

Platform Firmware Resilience (PFR)

BMC for remote monitoring and system control

Power & Cooling

2 + 1 redundant hot-pluggable PSUs

7 + 1 redundant hot-swappable fans

Typical power 1113 W (w/o optics)

HARDWARE SPECIFICATION

Full technical detail

Ports

Fabric ports	**128 × OSFP 800G**
Serial console	**1 × RJ-45 · 1 × USB Type-C**
Management	**1 × RJ-45 100/1000BASE-T**
SDN management	**2 × SFP+**
Storage	**1 × USB 3.0 Type-A**
Reset	**1 × reset button**

Clocking & Timing

Pulse	**1 × 1PPS I/O DIN**
Clock I/O	**1 × 10MHz I/O DIN**
Time of day	**1 × TOD port**
GNSS	**1 × GNSS antenna**

Performance

Cell-based switch	**2 × 51.2 Tbps throughput**
Cell switching	**2 × 21.6B cells/sec**

LEDs

OSFP fabric ports	**Link status, activity, rate**
Ethernet mgmt port	**Link status, activity**
System	**Diagnostic, locator, alarm, PSU, fan**

Key Components

Switch silicon	**2 × Broadcom Ramon3 BCM88920**
CPU	**Intel COMe Ice Lake-D D-1713NT 4C (D-1734NT 8C optional)**
Memory	**32GB DDR4 (2 × 16GB) with ECC**
Storage	**NVMe M.2 SSD 240G (480G optional)**
BMC / PFR	**AST2600 / AST1060**

Physical & Environmental

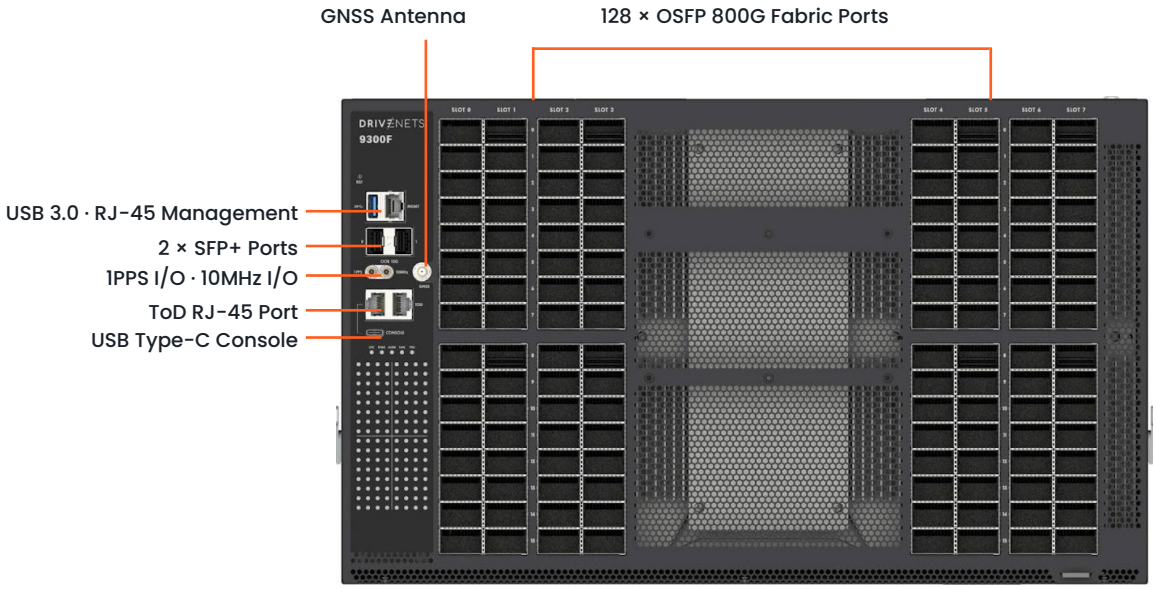
Dimensions (H×W×D)	**263 × 440 × 668.2 mm**
Weight	**63 kg**
Fans	**7 + 1 redundant, hot-swap**
Operating temp	**0°C – 40°C (32°F – 104°F)**
Storage temp	**-40°C – 70°C (-40°F – 158°F)**
Operating humidity	**5% – 85% non-condensing**

Power

PSUs	**2 + 1 redundant, load-sharing, hot-swap VAC/VDC**
Input voltage	**200–240 VAC · -48 to -60 VDC**
Typical power	**1113 W (w/o optics)**
Maximum power	**4352 W (with 800G 14 W optics)**

INTERFACE OVERVIEW

Front panel



REGULATORY COMPLIANCE

Certifications

EMI

CE Mark · EN55032 Class A · EN55024/35
EN 301 489-1 / -19 · EN 303413
FCC Part 15 Subpart B Class A · EN 300 386

Safety

UL 62368-1 Ed.3 / UL 60960
IEC/EN 60950-1
IEC/EN 62368-1 Ed.3

Environmental

ETSI 300 019-2-1 T1.2 (storage) · -2-2 T2.3 (transport)
EN 300 019-2-3 Class 3.2 (vibration, bump)
Acoustic ETS 300753 · RoHS-6

102.4 Tbps
FABRIC CAPACITY

128 × 800G
OSFP FABRIC PORTS

32K GPUs
IN ONE CLUSTER

2K NCPs
PER SYSTEM

DRIVENETS

DriveNets builds high-performance networking solutions for large-scale AI infrastructure and service-provider networks. DriveNets' Network Cloud powers production networks at global operators such as AT&T and Comcast, while its AI Fabric solutions optimize the performance and time to first token (TTFT) in multi-vendor AI environments at foundation model labs, NeoClouds, and enterprises. DriveNets combines high-performance networking, end-to-end automation, and full-stack AI cluster optimization to remove network bottlenecks, maximize GPU utilization, accelerate AI cluster deployments, and improve token economics. Learn more at **www.drivenets.com**

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DN-9300F