

1U VORTEX OT-CLOUD EDGE NODE

ARS-121L-NE316R



Front view · Vortex OT-Cloud Edge Node

The 1U Vortex node is the entry point to the OT-OCN fabric — a compact, Arm-based dual-processor chassis that runs the OT-Edge interface on one processor and the core OT-Cloud services on the other. Immune by design, deterministic by default.

2 × Arm 16-core LX2160A

8 × SFP+ 10GbE

128GB DDR4 · 2TB NVMe

2 × 300W PSU

BASE SPECIFICATIONS

FORM FACTOR	1U 19" Rackmount Chassis with Dual Processor
PROCESSOR	2 × NXP Layerscape LX2160A 16-core Arm Cortex-A72, 2GHz, Intel or AMD
MEMORY	64GB DDR4 DIMM per processor (128GB total)
STORAGE	64GB eMMC · 1TB M.2 NVMe SSD · 2 × SATA 3.0 — per processor
NETWORKING	8 × SFP+ ports (10GbE each) · 2 × 1GbE copper (RJ45)
I/O	6 × USB 3.0 · 6 × USB 2.0
POWER	2 × 300W PSU
TEMPERATURE	Commercial 0°C to 40°C

TYPICAL VORTEX DEPLOYMENT

PROCESSOR 1

Providing OT-Edge interface to the Secure OT-Cloud

OT-Edge

Vortex UI

PROCESSOR 2

Hosting the OT-Cloud Services

OT-Profile

OT-Cache

OT-File

OT-Zone