



IE-3100-4T2S-A DataSheet

Cisco IE-3100-4T2S-A rugged switch—6 Gigabit ports, dual DC, OSPF/BGP, VRF-Lite, MACsec-256, <50 ms REP/MRP recovery—built for secure industrial automation.

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IE-3100-4T2S-A Description

The Cisco Catalyst IE-3100-4T2S-A Rugged Series delivers fan-less, industrial-grade switching with four Gigabit copper downlinks and two SFP uplinks at non-blocking, line-rate speeds. Powered by Cisco IOS XE and the Network Advantage license, it supports advanced Layer 3 routing (OSPF, BGP, VRF-Lite, PIM) and wire-speed MACsec-256 encryption for secure, scalable industrial networks. Dual redundant 9.6–60 VDC inputs ensure continuous uptime, while the hardened design operates reliably from –40 °C to +70 °C in vented cabinets (–40 °C to +60 °C when sealed) .

Model Meaning

Segment	Meaning
IE-3100	Cisco Catalyst IE3100 Rugged Series industrial switch
4T	4 × 10/100/1000 Mbps RJ-45 copper downlink ports
2S	2 × 100/1000 Mbps SFP uplink ports
-A	Network Advantage licence – adds OSPF, BGP, VRF-Lite, PIM & full MACsec-256 encryption

Rugged Industrial Ethernet Switch Model Comparison

Model	Licence	Ports	Switching Cap.	PoE Budget
IE-3100-4T2S-A	Advantage	4 Cu / 2 SFP	12 Gbps	N/A
IE-3100-4T2S-E	Essentials	4 Cu / 2 SFP	12 Gbps	N/A
IE-3100-4P2S-A	Advantage	4 PoE / 2 SFP	12 Gbps	120 W

Specification

Parameter	IE-3100-4T2S-A
Product ID	IE-3100-4T2S-A
Switching fabric	Line rate, non-blocking ($\approx$ 12 Gbps)
CPU / DRAM	ARM dual-core, 4 GB DRAM
Flash (user)	1.5 GB onboard
SD card slot	1 GB / 4 GB / 16 GB optional
Unicast MAC table	8 000 entries
Queues	8 egress hardware queues
IPv4 routes	2 000 indirect (Advantage)
VLANs	256 IEEE 802.1Q VLANs
STP instances	128 MST/RSTP
PTP profiles	IEEE 1588v2 power & default
REP / MRP	Yes - sub-50 ms convergence
MACsec	256-bit encryption on all ports (Advantage)
Input voltage	9.6–60 V DC, dual feeds
Max current @12 V	1.6 A normal, 10 A/7 ms inrush
Typical power	14 W (no PoE)
Operating temp	–40 °C to +70 °C (vented) / +60 °C (sealed)
Humidity	5 %–95 % non-condensing
MTBF	931 290 h Telcordia SR-332 Issue 4
Dimensions	129 × 109 × 47.8 mm
Weight	1.27 kg (chassis only)
Mounting	DIN-rail (default)
Console ports	1 × RS-232 RJ-45, 1 × Micro-USB
Alarm contacts	2 dry-contact inputs

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