



IE-3100-8T2S-E DataSheet

Cisco IE-3100-8T2S-E: 10-port Gigabit industrial switch with dual SFP uplinks, -40 °C to +70 °C, dual DC 9.6-60 V, REP/MRP <50 ms recovery—ideal for OT networks

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IE-3100-8T2S-E Description

Cisco Catalyst IE-3100-8T2S-E is a compact, DIN-rail industrial switch that offers eight Gigabit RJ-45 downlinks and two dedicated Gigabit SFP uplinks in a fan-less, -40 °C to +70 °C hardened chassis. Running Cisco IOS XE with the Network Essentials feature set, it delivers wire-speed Layer-2 switching, static routing, REP/MRP sub-50 ms ring recovery, and Precision Time Protocol (IEEE 1588v2) for deterministic control networks.

Model Meaning

Segment	Interpretation
IE-3100	Cisco Catalyst IE3100 Rugged Series industrial Ethernet switch
8T	8 × 10/100/1000 Base-T copper downlink ports
2S	2 × 100/1000 Base-X SFP fiber uplink ports
-E	<i>Network Essentials</i> software image (Layer-2 switching plus basic L3 static routing)

Rugged Industrial Ethernet Switch Model Comparison

Model	License	Uplinks	PoE	Forwarding	Switching Fabric
IE-3100-8T2S-E	Essentials	2 × SFP	—	Line-rate	Non-blocking
IE-3100-8T2C-E	Essentials	2 × Combo	—	Line-rate	Non-blocking
IE-3200-8T2S-E	Essentials	2 × SFP	—	Line-rate	8 × copper fabric

Specification

Parameter	IE-3100-8T2S-E
Product Number	IE-3100-8T2S-E
Total Ports	10 (8×RJ-45, 2×SFP)
Software Image	Network Essentials
Forwarding Rate	Line-rate, non-blocking
Unicast MAC Table	8,000 entries
Egress Queues per Port	8
IPv4 Static Routes	2,000 indirect
VLANs Supported	256
Spanning-Tree Instances	128 (MST/RSTP)
PTP Profiles	IEEE 1588v2 default & power
REP / MRP Ring Support	Yes - <50 ms recovery
Dual DC Input Range	9.6-60 V DC
Typical Power Draw	17.7 W
Operating Temp.	-40 °C to +70 °C (vented)
Humidity	5 % - 95 % non-condensing
MTBF	931,290 h (Telcordia SR-332)
Dimensions (H x W x D)	5.00 x 3.00 x 4.33 in (12.7 x 7.62 x 11 cm)
Weight	1.9 lb / 0.86 kg
Console Ports	1×RJ-45 RS-232, 1×Micro-USB
Alarm Contacts	2 dry-contact inputs
Optional Storage	SD card (1 / 4 / 16 GB)
SwapDrive Support	Yes (zero-config replacement)

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