



IE-3100-4T2S-E DataSheet

Cisco IE-3100-4T2S-E: Rugged 6-port switch with 4xGigabit RJ45, 2xSFP, dual DC, REP/MRP resilience, ideal for industrial automation networks.

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IE-3100-4T2S-E Description

The Cisco Catalyst IE-3100-4T2S-E delivers compact, fan-less industrial switching with four Gigabit copper downlinks and two SFP uplinks at non-blocking line-rate. Hardened for -40°C to $+75^{\circ}\text{C}$ operation, it supports dual 9.6–60 VDC inputs and resilient ring protocols (REP, MRP). Managed via Cisco IOS XE WebUI or Catalyst Center, the Network Essentials license provides VLAN, STP, IGMP snooping, and ACLs for secure, reliable Layer 2 connectivity.

Model Meaning

Segment	Description
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
-E	Network Essentials license (Layer 2 features & basic security)

Rugged Industrial Ethernet Switch Model Comparison

Model	Ports (Cu/SFP)	License	PoE Budget	MTBF (hours)
IE-3100-4T2S-E	4 / 2	Essentials	N/A	931 290
IE-3100-4P2S-E	4 / 2	Essentials	120 W	755 460
IE-3200-8T2S-E	8 / 2	Essentials	N/A	—

Specification

Parameter	Value
Product Number	IE-3100-4T2S-E
Total Ports	6 (4×Copper, 2×SFP)
Software License	Network Essentials
PoE Budget	Not applicable
Forwarding Rate	Line-rate, non-blocking
Unicast MAC Addresses	8 000
IGMP Snooping Groups	1 000
VLANs Supported	256
Spanning Tree Instances	128
Access Control Entries	3 000 (PACL/VACL/RACL)
SD Card Slot	Optional (1 GB/16 GB)
Alarm I/O	2 dry-contact inputs
Console Ports	1×RS-232 (RJ-45), 1×Micro-USB
Power Inputs	Dual DC (9.6-60 VDC)
MTBF	931 290 hours
Operating Temp. (sealed)	-40 °C to +60 °C
Operating Temp. (vented)	-40 °C to +70 °C
Humidity	5%-95% noncondensing
Shock/Vibration	IEC 60068-2-27/6/64, EN 61373
Certifications	EN 60068, IEC 61131, IEC 60068-2-52/60
Mounting	DIN-rail

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