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IE-3100-4P2S-E DataSheet

Rugged Din-rail PoE+ switch IE-3100-4P2S-E: 4×1 GbE PoE+, 2×1 Gb SFP uplinks, –40 °C–75 °C, 9.6–60 V DC, 120 W, Network Essentials—ideal for industrial edge.

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IE-3100-4P2S-E Description

Cisco IE-3100-4P2S-E rugged PoE+ Ethernet switch combines four 802.3af/at Gigabit PoE+ ports (120 W budget) with two 1 Gb SFP uplinks for flexible fiber backhaul. Powered by Cisco IOS XE Network Essentials, this industrial PoE switch features dual 9.6—60 V DC inputs with reverse-polarity protection, fan-less cooling, and DIN-rail mounting for hassle-free installation. Engineered for extreme environments (—40 °C to 75 °C, 5—95 % humidity), the IE3100 PoE Ethernet switch ensures dependable power and data delivery to IP cameras, wireless access points, and IoT sensors.

Model Meaning

Code segment	Meaning
IE	Cisco Industrial Ethernet family
3100	IE 3100 Rugged Series
4P	4 × 10/100/1000 Mbps PoE+ copper ports
2S	2 × 1 Gb SFP uplinks
E	*Network Essentials* software license

Key Features

Rugged Industrial Ethernet Switch Product Comparison

Parameter	IE-3100-4P2S-E	IE-3100-4T2S-E	IE-3100-8P2C-E
Total ports	6	6	10
PoE+ downlinks	4	0	8
Copper downlinks	4	4	8
SFP uplinks	2	2	2
PoE budget	120 W	N/A	240 W
Software license	Network Essentials	Network Essentials	Network Essentials
Weight	2.0 lb (0.91 kg)	1.6 lb (0.73 kg)	2.3 lb (1.04 kg)

Specification

Parameter	Value
Model	IE-3100-4P2S-E
Total Ports	6 × 1 GbE
PoE+ downlinks	4 × 10/100/1000 RJ-45
SFP uplinks	2 × 1 Gb SFP
Software License	Network Essentials
PoE Budget	120 W (30 W/port)
PoE Standard	802.3af/at
Conformal Coating	No
Switching Capacity	Line-rate, all ports
MAC Address Table	8,000 entries
VLANs Supported	256
IGMP Groups	512
Egress Queues	8 hardware queues
DRAM	4 GB
SD Card Support	1 / 4 / 16 GB
Alarms	2 dry-contact inputs
Console Ports	1 RS-232 (RJ-45), 1 Micro USB
Power Inputs	Dual DC inputs
Input Voltage	12–54 V nominal; 9.6–60 V absolute
Max Current	4.2 A @ 12 V; 2.6 A @ 24 V
Operating Temp	–40 °C to 75 °C
Storage Temp	–40 °C to 85 °C
Relative Humidity	5–95 % non-condensing
Shock (Operational)	30 G, 11 ms half-sine
Vibration	5–150 Hz sinusoidal
Operating Altitude	Up to 15,000 ft (no derate); up to 40,000 ft w/ derate
Corrosion	Salt-mist & mixed-gas testing in progress
Dimensions (H×W×D)	5 × 2.55 × 5.08 in (12.7 × 6.48 × 12.9 cm)
Weight	2.0 lb (0.91 kg)
MTBF	755,460 hours

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