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IE-3100-18T2C-E DataSheet

Rugged DIN-rail switch IE-3100-18T2C-E: 18×1 GbE, 2 combo SFP/RJ-45, –40 °C–75 °C, 9.6–60 V DC, 17.7 W, Network Essentials license—ideal for industrial edge.

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IE-3100-18T2C-E Description

Cisco IE-3100-18T2C-E delivers a rugged, fan-less Gigabit Ethernet switch with eighteen copper downlinks and two versatile SFP/RJ-45 combo uplinks. Powered by Cisco IOS XE Network Essentials, it supports dual-DC input, broad –40 °C to 75 °C operation, and DIN-rail mounting for space-constrained industrial environments. Also known as the IE3100-18T2C rugged switch or industrial gigabit edge switch, it's ideal for factory automation, smart-city networks, and energy-sector deployments.

Model Meaning

Code segment	Meaning
IE	Cisco **I**ndustrial **E**thernet family
3100	IE 3100 Rugged Series
18T	18 × 10/100/1000 Base-T RJ-45 downlinks
2C	2 × 1 Gb combo (SFP/RJ-45) uplinks
E	*Network Essentials* software license

Key Features

Rugged Industrial Ethernet Switch Product Comparison

Parameter	IE-3100-18T2C-E	IE-3100-8T2C-E	IE-3100-18T2C-CC-E
Total ports	20	10	20
Copper downlinks	18	8	18
Combo uplinks	2	2	2
Software license	Network Essentials	Network Essentials	Network Essentials
PoE budget	Not applicable	Not applicable	Not applicable
Conformal coating	No	No	Yes
Input voltage	9.6–60 V DC	9.6–60 V DC	9.6–60 V DC
Temp range	–40 °C–75 °C	–40 °C–75 °C	–40 °C–75 °C
Dimensions (H×W×D)	5×4.3×5.08 in	5×3×4.33 in	5×4.3×5.08 in
Weight	1.27 kg	0.86 kg	1.27 kg

Specification

Parameter	Value
Model	IE-3100-18T2C-E
Total Ports	20 × 1 GbE
Copper Downlinks	18 × RJ-45
Combo Uplinks	2 × SFP/RJ-45
Software License	Network Essentials
Conformal Coating	No
Switching Capacity	Line-rate, all ports
Forwarding Rate	Line-rate, all packet sizes
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
Input Voltage	9.6–60 V DC
Power Consumption	17.7 W typical
Max Current	2 A @ 12 V; 0.5 A @ 48 V
Dimensions (H×W×D)	5×4.3×5.08 in
Weight	1.27 kg
Operating Temp	–40 °C to 75 °C
Storage Temp	–40 °C to 85 °C
Humidity	5–95 % non-condensing
Shock (Operational)	30 G, 11 ms half-sine
Vibration	5–150 Hz sinusoidal
Ingress Rating	IP30
MTBF	642 050 hours
Warranty	5 year limited hardware

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