



IE-3100-18T2C-A DataSheet

Rugged DIN-rail switch IE-3100-18T2C-A: 18×1 GbE, 2 combo uplinks, -40 °C-75 °C, 9.6-60 V DC, 17.7 W; Network Advantage with MACsec & APIs.


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IE-3100-18T2C-A Description

Cisco IE-3100-18T2C-A is a rugged, fan-less DIN-rail Gigabit switch offering 18 copper downlinks and 2 combo SFP/RJ-45 uplinks. With Cisco IOS XE Network Advantage, it unlocks advanced security (MACsec, 802.1X), powerful automation APIs (NETCONF/RESTCONF), and industry-protocol support in extreme -40 °C to 75 °C environments. Known as the IE3100-18T2C rugged switch or industrial gigabit edge switch, it's perfect for manufacturing, smart infrastructure, and utility networks.

Model Meaning

Code segment	Meaning
IE	Cisco Industrial Ethernet 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
A	Network Advantage software license

Key Features

Rugged Industrial Ethernet Switch Product Comparison

Parameter	IE-3100-18T2C-A	IE-3100-8T2C-A	IE-3100-18T2C-E
Downlink ports	18 × RJ-45	8 × RJ-45	18 × RJ-45
Uplink ports	2 × SFP/RJ-45	2 × SFP/RJ-45	2 × SFP/RJ-45
Total ports	20	10	20
Software license	Network Advantage	Network Advantage	Network Essentials
Switching capacity	Line-rate	Line-rate	Line-rate
MAC table	8 000 entries	8 000 entries	8 000 entries
Power consumption	17.7 W typical	17.7 W typical	17.7 W typical
Input voltage	9.6–60 V DC	9.6–60 V DC	9.6–60 V DC
Operating temp	–40 °C–75 °C	–40 °C–75 °C	–40 °C–75 °C
Conformal coating	No	No	No
Weight	1.27 kg	0.86 kg	1.27 kg

Specification

Parameter	Value
Model	IE-3100-18T2C-A
Total Ports	20 × 1 GbE
Copper Downlinks	18 × 10/100/1000 RJ-45
Combo Uplinks	2 × SFP/RJ-45
Software License	Network Advantage
Switching Capacity	Line-rate, all ports
Forwarding Rate	Line-rate
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 typ.
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
Relative Humidity	5–95 % non-condensing
Shock	30 G, 11 ms half-sine
Vibration	5–150 Hz sinusoidal
Ingress Rating	IP30
Warranty	5-year limited hardware

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