



RUGGED CISCO IE-3100-18TC-E

Rugged Cisco Switch for the ATMOS

The **Rugged Cisco IE-3100-18T2C-E** is a compact Ethernet switch providing 18 Gigabit RJ-45 downlink ports plus 2 dual-media (copper/SFP) Gigabit uplinks, built on Cisco IOS XE with Network Essentials. It supports layer-2 switching, industrial automation protocols, and features dual-input DC power, alarm I/O, SD-card storage, and DIN-rail or wall mounting. Rated for harsh environments with wide-temperature operation, it's ideal for space-constrained rugged deployments.

Designed specifically to pair with ATMOS tactical nodes, this switch slides and locks into place on top of the ATMOS chassis, creating a seamless, all-in-one networking and computing setup. This modular configuration simplifies installation in field environments and allows for compact, high-performance deployment in edge operations.

- Stackable design with the ATMOS Chassis sliderails
- Tested to meet military standards
- Built in the USA

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Featured Specifications

Downlink

18× RJ-45

Uplink Ports

2× dual-media uplink

Switching Capacity

~24 Gbps; forwarding up to ~17.8 Mpps

Power

Dual Input DC

Chassis Type

Stackable Rugged Chassis



Technical Specifications

Dimensions

Height: 3.5 inches, Width: 8.5 inches, Depth: 14.75 inches
Weight: 5 lbs

Downlink Ports

18 × 1000BASE-T RJ-45

Uplink Ports

2 × Gigabit dual-media (RJ-45 or SFP)

Switch Capacity

~24Gbps; ~17.8Mpps forwarding

Software

Cisco IOSXE with Network Essentials

Industrial Protocols

IEC61850-3, IEEE1613, EN50155; MRP, REP

Storage

SD card slot, micro-USB

Power

9.6–60V DC; nominal 12–48V

Cooling

Convection, fanless

Chassis

Stackable Rugged MIL-Spec Chassis

Environmental Specifications

Operational Temperature

MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

Storage Temperature

MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

Humidity

MIL-STD-810F, Method 507.4: 95% RH, 48 hours at 40 – 65°C

Altitude

MIL-STD-810F, Method 500.4: 12,500 ft operation; 40,000 ft transport

Vibration

MIL-STD-810G, Method 514.6: 4.43 GRMS, 5–20000Hz, 60 min/axis

Shock

MIL-STD-810G, Method 516.6: 20g, 11ms functional; 40g, 11ms crash hazard

EMC

MIL-STD-461F: CE & RE emissions

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