



RUGGED CISCO IE-3100-18T2C-E

Rugged ATMOS2 Switch 20-Port

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.

- Application-specific design
- Tested to meet military standards
- Built in the USA

Featured Specifications

Downlink
18x RJ-45

Uplink Ports
2x dual-media uplink

Switching Capacity
~24Gbps; forwarding up to ~17.8Mpps

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: 5.00 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 IOS XE 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; -15°C to +55°C

Storage Temperature

MIL-STD-810F, Method 501.5, Procedures II; -55°C to +85°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 Procedure I; 4.43 GRMS, 5-2000Hz, 60 min/axis

Shock

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

EMC

MIL-STD-461F: CE & RE emissions

Work With Core Systems Today

Core Systems designs and builds rugged servers, displays, mission computers, and integrated cabinet solutions for military and industrial applications. From our 85,000 sq. ft. San Diego facility, we deliver cutting-edge, durable computing solutions for mission-critical needs.

Core Systems

13000 Danielson St
Poway, CA 92064

