CORE SYSTEMS



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

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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
-15°C to +55°C; MIL-STD-810F, Method 502.4 Procedure II (Low Temperature) and Method 501.4 Procedure II (High Temperature)

Storage Temperature
-55°C to +85°C; MIL-STD-810F, Method 502.4 Procedure I (Low Temperature) and Method 501.4 Procedure I (High Temperature)

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

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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.

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