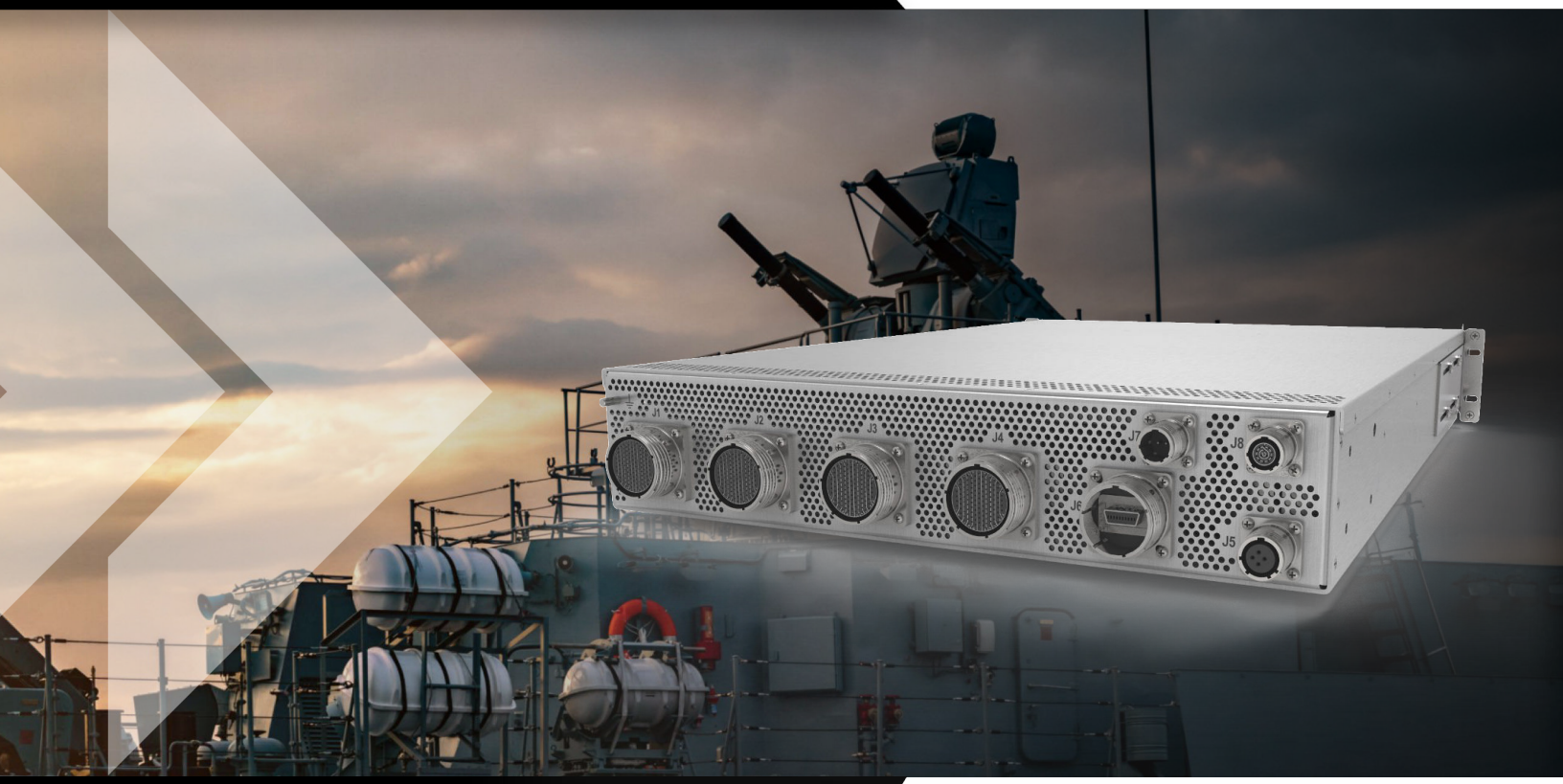
CORE SYSTEMS



RUGGED RCAT4948 CISCO SWITCH

Hardened 2U 4948E Ethernet Switch

The **RCAT-4948E** is a rugged 2U Cisco® 4948E Ethernet switch built for reliable performance in harsh environments. Housed in a lightweight, machined aircraft aluminum chassis, it is designed for payload-sensitive deployments while withstanding shock, vibration, and extreme conditions. Ideal for defense, aerospace, and industrial applications, it delivers hardened networking where commercial switches fall short.

Designed for extreme thermal, altitude, and humidity conditions, the RCAT-4948E features conformal-coated and fully potted components for enhanced durability. It supports custom I/O, external cable sets, and flexible AC or DC power options for mission-specific integration, ensuring consistent performance in mobile and tactical deployments.

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

Featured Specifications

Dimensions
Height: 3.50" | **Depth:** 22.00" | **Width:** 17.40"

Expansion Slots
Qty: 1, full height

Cooling
80mm high speed, high volume vans

Power
24/28VDC

Chassis Type
Aircraft-Grade Aluminum

Copyright 2026 All Rights Reserved

CORE SYSTEMS

RUGGED RCAT4948 CISCO SWITCH



Technical Specifications

Dimensions
Height: 3.50 inches, Width: 17.40 inches, Depth: 22.00 inches
Weight: 31.00 lbs

Expansion Slots
Qty: 1, full height

Power Supply
24/28VDC

Cooling
80mm high speed, high volume vans

Chassis Type
Lightweight aluminum 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: 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

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