



Rugged RCAT-4948E Cisco Switch

Hardened 2U 4948E Ethernet Switch



The rugged RCAT-4948E is a hardened 2U 4948E Cisco Ethernet Switch machined out of solid aircraft aluminum. It extends to military applications with enhancements that support the deployment of data and multimedia services that require thermal, shock, vibration, altitude, and humidity conditions not offered by the standard commercial Cisco version. Custom connections, external cable sets, and custom AC or DC power requirements are available.

The RCAT-4948E chassis is milled from solid blocks of aircraft aluminum to provide unmatched structural rigidity. The aluminum is 6061T-651 strain hardened structural aircraft aluminum that is 0.25" to 0.50" thick.

Rugged Military Grade Design

All the components on the Cisco board are potted for vibration resistance. The boards are conformal coated for humidity and tin whiskering.

Chassis Height and Depth: 2U, 22.00" short depth chassis

Cooling: 80mm high speed, high volume fans (4 rear mounts)

Type of Chassis: Solid All Aluminum Billet Construction



Technical Specifications

Environmental Specifications:	Operational Temperature Range: MIL-STD-810F/G, Method 501.5, Procedures I/II; -10C to +50C with solid state drives Storage: MIL-STD-810F/G, Method 501.5, Procedures I/II; -40C to +75C Humidity: MIL-STD-810F/G, Method 507.4; 48 hour, 95% RH 40-65C with humidity option Altitude: MIL-STD-810F/G, Method 500.4; 12,500ft operation with 40,000ft transport Vibration: MIL-STD-810F/G, Method 514.6 Procedure I; 4.43 GRMS, 5-20000Hzz, 60min/axis with solid state drives Shock: MIL-STD-810F/G, Method 516.6, Procedures I/V; 20g, 11msec functional shock; 40g 11msec crash hazard shock Other: MIL-STD-461F/G CE102 & RE102; Meets using CORESYSTEMS optional 461 EMI Kit
Mechanical:	Height - 3.50 in (8.90 cm), Width - 17.40 in (44.19 cm), Depth - 22.00 in (55.88 cm), Weight - 22 lbs (9.98 kg)
Cisco Technology:	Integrated Cisco Catalyst 4948E Ethernet Switch (refer to Cisco.com for a full list of specifications); Cisco IOS Software- Enterprise Services, IP Base or LAN Base Image (pre-loaded); Support for Layer 2 and 3 Forwarding, EEM, QoS, IPv6 Switching and Routing, Extended MAC address table to enable server virtualization
Ports:	48x 10/100/10000 Gigabit Ethernet (BASE-T) Downlinks (over Copper); 2x 10 Gigabit Ethernet (10GBASE-CX4) Uplinks, Compatible w/ Copper Twinax Media; 1x 10 Gbps Multi-mode Fiber (10GBASE-LRM), Compatible w/ 62.5 micron / 500 modal Bandwidth; 1x 1 Gbps Multi-mode Fiber (1000BASE-SX), Compatible w/ 50.0 micron / 500 modal Bandwidth; 1x EIA/TIA-232 Serial Console (Out-of-band management); 1x 100BASE-T Management Ethernet (In-band management)
Cooling:	80mm high speed, high volume fans (4 rear mounts); Thermostatically controlled via a Core Systems HeatSense fan controller
Reliability:	24 / 28VDC Voltage Input Range: 18-33 VDC; Power Consumption: <15W Max (Router), <50W Max (Router + GigE Switch)
Power:	24 / 28VDC Voltage Input; Power Consumption: <320W Max
Options:	Starter Cable Set (MIL-38999 to RJ-45/DB9); Custom Cable Set (Customer Specified)

Services

Let Core Systems help guide you and your business through the rapidly changing IT landscape. Core Systems Services delivers confidence, reduces risk, and helps you realize greater agility and stability.

Core Systems is a premier manufacturer of best-in-class rugged computers and rugged displays. We design and manufacture all of our products in Poway, California. Our 55,000+ square foot facility features onsite engineering, assembly, and testing along with a complete metal fabrication and machining facility. Core Systems is one of the only vertically integrated rugged computer manufacturers in the nation. Our diverse family of rugged products are deployed in ground vehicles, aircraft, and maritime installations worldwide.

© Copyright 2017 Core Systems. The information contained herein is subject to change without notice. The only warranties for Core Systems products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Core Systems shall not be liable for technical or editorial errors or omissions contained herein.

Core Systems Resources

WWW.CORE-SYSTEMS.COM

888-584-CORE(2673)

Core Systems, 13000 Danielson St., Q
Poway, CA, 92064

Learn about the Rugged RCAT-4948E
Cisco Switch here: <https://core-systems.com/rugged-rcat4948-cisco-switch/>

