Crystal Group RCS7750-48 Rugged Switches





Field tested, fail-safe and long life performance in extreme conditions. Crystal Group rugged networking appliances bring plug-and-play functionality to demanding military, industrial, and commercial applications in air, on land and at sea. Based on the Ruckus® ICX® 7750 series, this rugged switch provides intelligent, scalable stackable LAN solutions with enterprise class functionality and MIL-SPEC environmental performance.

High-performance switches are housed in rugged, light-weight, and compact enclosures made of strain-hardened aircraft aluminum, designed to survive extreme temperatures, humidity, shock and vibration, dust, sand and salt fog.

Innovative solutions. Crystal Group's portfolio of rugged and industrial computing products areengineered and tested to withstand challenging environments, meet and exceed military and industrial standards, and provide the latest COTS technologies to best manage cost, availability, scalability and flexibility

and flexibility.

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Dependable services. When a computing application requires a custom solution, Crystal Group delivers with vertically-integrated services, including product design and development, testing, systems engineering and integration, mechanical and electrical engineering, configuration management, and product life-cycle planning.

Dedicated support. Crystal Group's expert staff and global network provide fast and effective product support when and where it is needed. Count on Crystal Group for prompt response times, quick turnarounds, 5+ year warranties, and quality service around the clock and around the globe.

FEATURES

- Light weight construction from billet strain, hardened aluminum
- Easy mounting in EIA-310 19" rack, Delrin glides, or fixed mount
- 48 port designs in 19" chassis
- Available with copper or fiber ports
- Layer 2+ and Layer 3 capable
- AC/AC, AC/DC, and DC/DC 1+1,
- FCC and MIL-STD-461 EMC compliant
- Optional Angelus 10G MIL-CIRC connectors

A clear advantage.

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Specifications

	RC15/757054848,6,CDRb Pagaver RC	S7750-48CMRCS7750-48F		
Height	2U2U1U 1U			
Width	1 17322"(43399cm)1 7.32" (4	3.99 cm)17.32" (43.99 cm)		
Depth	17 '194'3(48.26n):22) '' (55.88 cr	n)19" (48.26 cm)		
Weight	19.98 lbs (9.06 kg) depending on po vpeനകുട്ടവിച്ചാന് ഇന് ഇന് ഇന് ഇന് configuration	26 lbs. (11.79 kg epending on power supply power) 19.98 lbs (9.06 kg) depending or
Cooling	Forced air convection via internal high reliability fans			
Designed to (testing in progress) Environmental Standards	MIL-STD-810, Operational Temperature, Method 501/502 Procedure I/II: -40°C to +55°C MIL-STD-810, Vibration, Method 514, Procedure I: 4.63 GRMS, 5-2000Hz, 60 min/axis - with solid state drives + vibration kits ¹ MIL-STD-810, Shock, Method 516, Procedures I/V: 35g, 11msecfunctional shock MIL-STD-810, Humidity, Method 507 - with kit MIL-STD-810, Altitude, Method 500: 12,500ft operation, 40,000ft transport			
Mounting	Fixed or Delrin Glides, mounts in standard EIA-310 rack			
AC, FCC Compliant, Auto Switching 1+1	100-240VAC, 50/60Hz, 50 100-240VAC, 50/60Hz, 500W	oW		
DC, FCC Compliant (1+1)	43-53VDC	18-36VDC	18-36VDC	43-53VDC
Fixed Ports: 1/10 GbE SFP/ SFP+	-	-	-	Forty-Eight
Fixed Ports: 1/10 GBASE-T RJ45 Fixed Ports: 40 GbE QSFP+	Forty-Eight	Forty-Eight	Forty-Eight	-
Optional Expansion Ports:	Six	Six	Six	Six
40 GbE QSFP+ Console Port	Six	Six	Six	Six
Out of band management port	One	One	One	One
Aggregated Stacking Bandwidth	One	One	One	One
Maximum units per stack Dynamic Pack Buffer Size	5.76 Tbps	5.76 Tbps	5.76 Tbps	5.76 Tbps
Maximum Stacking Distance	Twelve	Twelve	Twelve	Twelve
Latency	12.2 MB	12.2 MB	12.2 MB	12.2 MB
	10 KM	10 KM	10 KM	10 KM
	550ns 40 GbE-40GbE/ 2.9, US 10 GbE-10GbE w/ license	550ns 40 GbE-40GbE/ 2.9, US 10 GbE-10GbE w/ license	550ns 40 GbE-40GbE/ 2.9, US 10 GbE-10GbE w/ license	550ns
Base Software	Layer 3 with static routes, upgradable to full L3 w/ license	Layer 3 with static routes, upgradable to full L3 w/ license	Layer 3 with static routes, upgradable to full L3 w/ license	Layer 2+ with static routes, upgradable to full L3 w/ licens
Switching Capacity (Full Duplex)	1.92 Tbps	1.92 Tbps	1.92 Tbps	1.92 Tbps
Forwarding Capacity (Full	1.44 Bpps	1.44 Bpps	1.44 Bpps	1.44 Bpps



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RCS7750-48CM shown with optional Angelus 10G MIL-CIRC connectors.



1 - Test report available for AC and DC power versions (48C copper)

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