# **CRYSTAL**

## **Crystal Group RCS7850-24/38/48 Rugged Switch**



#### Bring powerful network speed to edge applications

Equipped with 24-48 QSFP-28 ports, this unit uses fiber optics to deliver transmission speeds of 100Gb. When needed, up to 12 of these switches can be stacked for easy management and an aggregated bandwidth of up to 9.6Tb per second.

This 19" deep switch—based on the CommScope ICX-7850 series—provides enterprise-class solutions for small or medium-size applications, such as field radar systems, that depend on a reliable digital backbone to meet interface and bus speeds.

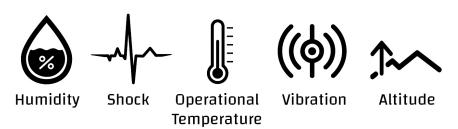
Housed in a rugged, lightweight, and compact enclosure, the RCS7850-24/32Q/48 provides intelligent, scalable, edge technology with plug-and-play functionality and MIL-SPEC environmental performance to survive harsh environments, extreme temperatures, and brutal shock and vibration.

#### **Use cases**

- · Cybersecurity protection
- · Sensor data aggregation
- Edge client uplink

- · Intelligence forwarding
- Enterprise routing

### **Designed to MIL-STD-810**



Crystal Group RCS7850 Technical Specifications	
Height	1U
Width	17.32" (43.99 cm)
Depth	19"-21.8" (48.3-55.2 cm); power supply dependent
Weight	18-21 lbs (8.2-9.5 kg)
Cooling	Forced air convection via internal, high-reliability fans
Mounting	Glides or fixed; mounts in standard EIA-310 rack
Power Supply	AC: 100-240 VAC DC: 113-36 VDC
	Environmental testing standards <sup>1</sup>
MIL-STD-810: Environmental Engineering Considerations and Laboratory Tests	MIL-STD-810, Operational Temperature, Method 501/502 Procedure I/II: -40°C to +50°C MIL-STD-810, Vibration, Method 514, Procedure I: 3 GRMS, 5-2000Hz, 60 min/axis MIL-STD-810, Shock, Method 516, Procedures I/V: 20g, 11msec functional shock; 40g, 11msec crash hazard shock MIL-STD-810, Humidity, Method 507 with kit MIL-STD-810, Altitude, Method 500: 12,500ft operation, 40,000ft transport
	Switch features
Fixed Ports: 40/100 GbE QSFP28	24/38/42
Fixed Ports: 40/100 GbE QSFP28  Console Port	
	24/38/42
Console Port	<b>24/38/42</b> 1
Console Port  Out of Band Management Port	24/38/42 1
Console Port Out of Band Management Port Aggregated Stacking Bandwidth	24/38/42  1  1  9.6 Tbps
Console Port Out of Band Management Port Aggregated Stacking Bandwidth Maximum Units per Stack	24/38/42  1  1  9.6 Tbps  12
Console Port Out of Band Management Port Aggregated Stacking Bandwidth Maximum Units per Stack Maximum Stacking Distance	24/38/42       1       1       9.6 Tbps       12       10 KM
Console Port Out of Band Management Port Aggregated Stacking Bandwidth Maximum Units per Stack Maximum Stacking Distance Average Latency	24/38/42  1  1  9.6 Tbps  12  10 KM  0.8 microseconds
Console Port Out of Band Management Port Aggregated Stacking Bandwidth Maximum Units per Stack Maximum Stacking Distance Average Latency Base software	24/38/42  1  1  9.6 Tbps  12  10 KM  0.8 microseconds  Layer 3 with static routes; upgradeable to full L3 with license

In-house test reports provided for baseline units; customer-specific test options available upon request.

1: Testing in progress

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