CRYSTAL

Crystal Group RCS7150-12/24 Rugged Switch

12 or 24 ports

1 modular expansion slot for uplink/stacking

Advanced Layer 3 routing capable

RJ-45 Copper or SFP

AC or DC power supply options
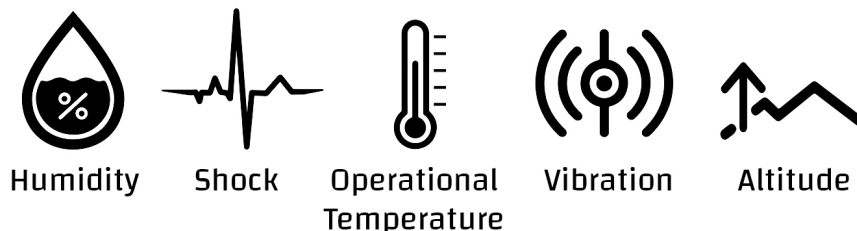
Commercial or MIL-CIRC I/O options

Intelligent, scalable, edge switch technology

The rugged RCS7150 series of switches are purpose-built to provide wired connectivity at the tactical edge with plug-and-play functionality. These networking switches build on the proven reliability of the RUCKUS® ICX® 7150 series, combined with our tried-and-true hardware ruggedization techniques. Housed in a light weight, alumnium chassis, the RCS7150 has 12 or 24 port options, is Layer 2+ and Layer 3 capable. Tested to tough environmental standards, the RCS7150 delivers the performance, flexibility, and scalability required for the most demanding edge environments.

Use cases

- Cybersecurity protection
- Sensor data aggregation
- Edge client uplink
- Intelligence forwarding
- Enterprise routing

Designed to MIL-STD-810

Humidity   Shock   Operational Temperature   Vibration   Altitude

Crystal Group RCS7150 Technical Specifications

	RCS7150-12	RCS7150-12M	RCS7150-24
Height	1U	1U	1U
Width	17.46" (44.35 cm)	17.46" (44.35 cm)	17.46" (44.35 cm)
Depth	9.75" (24.77 cm)	14.25" (36.19 cm)	9.75" (24.77 cm)
Weight	8 lbs (3.63 kg); depending on power supply configuration	11.5 lbs (5.22 kg)	8 lbs (3.63 kg); depending on power supply configuration
Cooling	Forced air convection via internal, high-reliability fans		
Mounting	Glides or fixed; mounts in standard EIA-310 rack		
Power Supply	**AC:** 90-264VAC, auto-switching **DC:** 18-36VDC, 36-72VDC	90-264VAC, auto-switching	**AC:** 90-264VAC, auto-switching **DC:** 18-36VDC, 36-72VDC
Environmental testing standards [1]			
MIL-STD-810: Environmental Engineering Considerations and Laboratory Tests	Operational Temperature, Method 501/502 Procedure I/II Vibration, Method 514, Procedure I Shock, Method 516, Procedures I/V Humidity, Method 507 Altitude, Method 500		
Switch features			
Fixed Ports: 1GbE RJ-45 Ports	12 + Two Uplink	12 ports with M12 X-code connectors	24+ Two Uplink
Fixed Ports: PoE Capable Ports	12 PoE+ (15.4W each); four are 30W capable	12 PoE+ (15.4W each); four are 30W capable	
Fixed Ports: SFP Ports	Two 1G SFP; upgradeable to 10G SFP+ w/ license		Four 1G SFP, upgradeable to 10G SFP+ w/ license
Console Port	One USB Type-C, One RJ-45	One USB Type-C, one M12 serial connector	One USB Type-C, One RJ-45
Out of Band Management Port	One 10/100/1000 Mbps Ethernet RJ-45	One 10/100/1000 Mbps Ethernet M12 X-code connector	One 10/100/1000 Mbps Ethernet RJ-45
Aggregated Stacking Bandwidth	240 Gbps		480 Gbps
Maximum Units per Stack	12		12
Maximum Stacking Distance	10 KM		10 KM
Base Software	Basic Layer 3 Static Routes; upgradeable to Full Layer 3 w/ License		
Switching Capacity (full duplex)	68 Gbps	68 Gbps	132 Gbps
Forwarding Capacity (full duplex)	51 Mpps	51 Mpps	98 Mpps

In-house test reports provided for baseline units; customer-specific test options available upon request.
1: Testing in progress

AS9100D CERTIFIED ISO 9001