

DELL XR4000 PRODUCT EXTENSION /
POWERFUL CISCO NETWORKING /
SLED DESIGN FOR TRACEWELL AND
STANDARD DELL PRODUCTS



Tracewell T-XR4510-S (Network Switch)

BASED ON: The T-XR4510-S is based on the Cisco Catalyst ESS-9300, an industry standard embedded switch ideal for secure, mobile networks and optimized for challenging edge and tactical environments.

USE CASE: Tracewell Systems makes it possible to do more with Dell Technologies. Tracewell's Dell Extensions deliver a wide range of enhanced capabilities to Dell's groundbreaking PowerEdge XR4000 products. The T-XR4510-S is ideal for customers looking to extend the high-performance capabilities of the Dell XR4000 by integrating powerful networking capabilities into their hyperconverged platforms.

Benefits

SWITCH SLED READY

The Tracewell T-XR4510-S makes it possible to add groundbreaking Cisco networking capabilities to Tracewell XR4000 and Dell PowerEdge XR4000 platforms.

BASED ON CISCO

The T-XR4510-S is based on the industry leading Cisco Catalyst ESS-9300, an embedded switch featuring 10 high-speed Gb ports and advanced switching capability making it for ideal band with applications at the edge.

BENEFITS DELL + TRACEWELL

The T-XR4510-S can be ordered directly through the Dell OEM Solutions group.



SYSTEM:
13.5"D x 6.6" W x 1.6"H (1U)
weight: 5.2lbs

FORM FACTOR HIGHLIGHTS

The Tracewell T-XR4510-S is a Dell product extension that adds Cisco networking capabilities to the Dell PowerEdge XR4000 platform.

Engineered by Tracewell the T-XR4510-S delivers a sled-based form factor that easily integrates into XR4000 chassis designs built by Tracewell and is also compatible with off-the-shelf Dell XR4000 products.

The Tracewell T-XR4510-S Specifications Summary

The Tracewell T-XR4510-S is compatible with standard Dell hardware configurations.

NETWORK PORTS	10 ports of 10G / 1G Ethernet; SFP+. 1 management port of 10/100/1000BASE-T; RJ-45. For a list of compatible SFP modules, please refer to the Cisco product Web site.
NETWORKING FEATURES	<p>Enterprise Grade Layer 2 switching: IEEE 802.1Q VLAN Trunking, 802.1W Spanning Tree Rapid Reconfiguration, 802.1ab LLDP, 802.1s - MSTP Standard Compliance, 802.1s VLAN Multiple Spanning Trees, 802.1Q Tunneling, 802.3 standard, Unidirectional Link Detection (UDLD), Cisco Discovery Protocol, unicast MAC filter, VTP v2 and v3, EtherChannel, voice VLAN, PVST+, and RSTP.</p> <p>Multicast: IGMPv1, v2, v3 snooping, IGMP filtering, IGMP querier.</p> <p>Security: Zeroization, secure boot, port security, IEEE 802.1X, DHCP snooping, dynamic ARP inspection, IP Source Guard, private VLAN. MAC authentication bypass, 802.1X multidomain authentication, storm control, SCP, SSH, SNMPv3, TACACS+, RADIUS server/client, MAC address notification, BPDU guard, hardware physical alarm inputs (2), and relay output (1), MACsec-128 (are supported on all 10x10G ports simultaneously at line rate).</p> <p>Management: Web UI, MIB, SmartPort, SNMP, syslog, DHCP server, Switched Port Analyzer (SPAN) session (1), FnF, NTP.</p>
OTHER I/O & CONTROL	One RJ-45 management port. One RS-232 serial port console interface. 1x USB 2.0 console interface. Zeroize button, pin hole access.
PROCESSOR	CrayCore CPU integrated in DopplerGS ASIC. MACSec: MSC MACsec embedded in ASICs v1.1
MEMORY	4 GB DDR4 DRAM, 8 GB onboard eMMC flash storage (2.5 GB usable space)
OS / SOFTWARE	Cisco IOS XE software included.
CONSTRUCTION	High strength steel chassis for rigidity with minimal weight.
SLED FORMAT	Pluggable node; installs in a Dell XR45x0c server node slot. Compatible with both Dell XR4000 and Tracewell T-XR4000 platforms.

Specifications Summary (continued)

POWER	Input voltage: 12Vdc nominal, 10.8V - 13.2V range, from XR4000 chassis slot connector. Input current: 20A max. Power consumption: 100W typical, 240W max. Maximum SFP power: 2.5W max (each).
COOLING	Internal, three cable fans.
ENVIRONMENTAL	Normal operating temp: -5°C to 55°C with startup of 0°C (23°F to 131°F) with some restrictions. Storage temp: -40° to 85°C (-40° to 185°F).
DIMENSIONS & WEIGHT	13.5" L x 6.6" W x 1.6" H (1U); 5.2 lbs.
INSTALLATION & OPTIONS	Compatible with Dell XR4000 platforms and T-XR4000 platforms.

All specifications are derived from the standard Cisco ESS-9300 product.

ABOUT TRACEWELL SYSTEMS

For more than 50 years Tracewell has enabled the nation's largest military and commercial organizations to deliver powerful and reliable computing solutions in environments where size, weight, power and other constraints present challenges that cannot be met by standard computing systems. Tracewell Systems have been recognized by the top names in the defense and technology sectors for their commitment to Trusted Innovation – a process where the company solves previously impossible, sensitive, mission-critical platform challenges through customer solution design, engineering and manufacturing, all under one roof. More information: www.tracewell.com.

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March 2024 | Version 1.0 Tracewell T-XR4510-S (Network Switch) At A Glance