

DELL XR4000 PRODUCT EXTENSION /  
POWERFUL DELL NETWORKING /  
COMPACT TRANSIT CASE



S4112T/F-ON Shown installed  
in T-XR4000 ATA System

# Integrated Dell Networking (S4112F-ON/S4112T-ON)

**BASED ON:** The Dell S4112F/T-ON, a high-performing, multifunction switch where supporting data intensive applications are required for data center, cloud and edge computing 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. The Integrated Dell Networking platform – featuring the Dell S4112F/T-ON) is ideal for customers looking to add networking capabilities to their Dell XR4000-based solutions.

## Benefits

### T-XR4000 READY!

Featuring the Dell S4112F/T-ON, the Integrated Dell platform makes it possible to add groundbreaking Dell networking capabilities to Tracewell's T-XR4000-based Dell solutions.

### BASED ON DELL NETWORKING

The Integrated Dell Networking solution features a standard Dell S4112F/T-ON. Additional Dell networking options are available depending on the use case or program requirement.

### BENEFITS DELL + TRACEWELL

The Integrated Dell Networking Solution can be ordered directly through the Dell OEM Solutions Group.



**SYSTEM:**  
18.0"D x 8.28"W x 1.7"H (1U)  
weight: T-S4112F-ON (8.3 lbs)  
T-S4112T-ON (8.45 lbs)

### FORM FACTOR HIGHLIGHTS

Tracewell makes it possible to add powerful Dell networking capabilities to its Dell PowerEdge XR4000-based platforms.

Engineered by Tracewell, the “Dell networking solution” makes it possible to ensure that a standard Dell switch (S4112F/T-ON) easily integrates into a Tracewell T-XR4000 chassis providing a compact, hyper-converged solutions featuring off-the-shelf XR4000 products.

# Dell Networking Specifications Summary

The Integrated Dell Networking platform is compatible with standard Dell hardware configurations.

<b>NETWORK PORTS</b>	T-S4112F-ON: 12 ports of 10G / 1G SFP+ and 3 Ports of 100G QSFP28 T-S4112T-ON: 12 ports of 10G / 1G BASE-T and 3 Ports of 100G QSFP28 Note: The 3 Ports of 100G QSFP28 are expandable to 12 ports of 10G via QSFP28 breakout cables.
<b>NETWORKING FEATURES</b>	<b>Scalable L2 and L3 Ethernet Switching:</b> QoS, ACL and a full complement of standards based IPv4 and IPv6 features including OSPF, BGP and PBRData; Center Bridging with priority flow control (802.1Qbb), ETS 802.1Qaz), DCBx and iSCSI TLV; Enhanced mirroring capabilities including local mirroring, Remote Port Mirroring (RPM), and Encapsulated Remote Port Mirroring (ERPM)  <b>IEEE Standards:</b> 802.1ab (LLDP); 802.1ax (Layer 2); 802.1d, 802.1w, 802.1s, 802.1x (Mgmt/Security), 802.3x (Layer 2); 802.3 (1000BASE-KX); 802.3ba (40GbE and 100GbE ports)  <b>Management:</b> Enterprise SONiC, OpenConfig, gNMI and REST
<b>OTHER I/O &amp; CONTROL</b>	One RJ45 console/management port with RS232 signaling One micro-USB-B console port One RJ45 10/100/1000BASE-T management port 1x USB 2.0 console port
<b>PROCESSOR</b>	One 2-Core Rangeley C2338 processing unit (CPU)
<b>MEMORY</b>	4GB 1600MTS DDR3 SO-DIMM module, and one 16GB mSATA/M.2 SSD module
<b>OS / SOFTWARE</b>	OS10 Enterprise Edition software included
<b>CONSTRUCTION</b>	High strength steel chassis for rigidity with minimal weight.
<b>FORM FACTOR</b>	Modular half rack; Installed as an integrated solution on select Tracewell T-XR4000 platforms.
<b>POWER</b>	Redundant, fixed power supplies Power consumption: T-S4112F-ON 90W typical, 180W max T-S4112T-ON 120W typical, 200W max.
<b>COOLING</b>	Internal, three fixed fans.
<b>ENVIRONMENTAL</b>	Normal operating temp: -5°C to 40°C (41°F to 104°F). Storage temp: -40° to 65°C (-40° to 149°F).
<b>DIMENSIONS &amp; WEIGHT</b>	18.0" L x 8.28" W x 1.7" H (1U); T-S4112F-ON: 8.3 lbs. / T-S4112T-ON: 8.45 lbs.
<b>INSTALLATION &amp; OPTIONS</b>	Compatible with select Tracewell T-XR4000 platforms as well as other Dell enablement platforms.

All specifications are derived from the standard Dell PowerSwitch S4100-ON 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](http://www.tracewell.com).

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