PRODUCT AT A GLANCE

**POWERFUL AND COMPACT /
COMPUTE AND STORAGE INTENSIVE /
ENTERPRISE-CLASS PLATFORM**

Tracewell T-C6420/ T-C6525 (1 Node)

BASED ON: The Dell EMC PowerEdge C Series. Flexible configurations and embedded management software delivers high-performance computing, intense data analytics and hyper-converged infrastructure.

USE CASE: Ideal for customers that require an Air Transport Association (ATA) "carry on" compliant platform that delivers rugged data center capabilities to support edge computing solutions, such as data analytics and cyber security.

SYSTEM:
5.8"H x 9.1"W x 20.8"D

SYSTEM IN TRANSIT CASE:
12.3"H x 9.1"W x 22"D

FORM FACTOR HIGHLIGHTS

Air Transportation Association (ATA) carry-on compliant transport case offers reduced weight and enhanced shock isolation and system protection, making it the perfect solution for mobile, tactical and edge environments. Front and rear doors can be removed so the system can operate while in the transit case. Features "click in, click out" design allowing quick system removal and setup. Can be scaled to accommodate additional components and technology.

MAXIMUM CONFIGURATION

Processor: 128 cores
Memory: 2TB
Storage (SSD): 24, 2.5" drives, 16TB each
PCIe slots: 2
Note: AMD product version

Benefits

DELL TECHNOLOGIES

Enterprise-class modular infrastructure that combines the latest compute, high-speed memory, high capacity storage, connectivity and intelligent automation and system management tools.

TRACEWELL PLATFORMS

Features a compact, rugged platform in a tactical transit case. The T-C6420 features the latest generation Intel® Xeon® Scalable processors. The T-C6525 features the AMD EPYC™ Processors which deliver up to 128 cores in a compact ATA "carry on" platform.

DELL + TRACEWELL

Electrically identical to standard Dell products. "Plug and play" components between Dell EMC products and Tracewell platforms. Order through Dell (Dell part number) and eligible for Dell warranty, service, support and secure supply chain.

The Tracewell T-C6420 / T-C6525 (1 Node) Specifications Summary

The Tracewell T-C6420 / T-C6525 (1 Node) accepts standard Dell hardware configurations.

STANDARD DELL EMC PRODUCT CONFIGURATIONS

CHASSIS MANAGEMENT CONTROLLER	Integrated Dell Remote Access Controller (iDRAC9) with Dell Lifecycle Controller. One RJ45 iDRAC9 dedicated port, and one Micro USB 2.0-compliant port for iDRAC Direct.
PROCESSOR TYPE	C6420: Intel® Xeon® Scalable processor, up to 28 cores (1 or 2 processors). C6525: Second Generation AMD® EPYC™ processor SP3, up to 64 cores (1 or 2 processors).
MEMORY ARCHITECTURE	C6420: 16 DDR4 slots, supports up to 2933 MT/s RDIMM, 1024GB Max DDR4. C6525: 16 DDR4 DIMM slots, supports up to 3200 MT/s RDIMM / LRDIMM, 2TB Max DDR4.
STORAGE	Up to 24 HD/SSD SATA/SAS 2.5-inch drives.
RAID CONTROLLERS	C6420: PERC H330 Mezz, PERC H730p Mezz, SAS HBA330. RAID: 0, 1, 5, 6, 10, 50, 60. C6525: HW RAID. PERC 10.4 port for H745, H345, HBA345. Chipset SATA/SW. RAID: 0, 1, 5, 6, 10, 50, 60.
VIDEO	Mini Display Port. Supports Ultra High Definition (HD) 4K x 2K video resolutions up to 4096 x 2160 @ 60Hz, including 1080p.
PCIe SLOTS (UP TO 2)	Supports PCIe Half-height, half-length cards, ideal for I/O utilization (including GPU, FPGA, SSD, etc.). C6420: 1 x PCIe x 16 Gen3, or PCIe x16 Gen3 OCP 2.0 Mezzanine. C6525: 1 x PCIe Gen4 x 16, OCP3.0 SFF, PCIe Gen4 x16, or M.2, PCIe Gen4 x 16. Note: 1 x PCIe full-height, full-length, double wide (FHFL-DW) chassis option is available.
POWER SUPPLY	One power supply supported. Available in 2400W, 2000W or 1600W. High-line operation up to 2400W. Low line operation up to 1400W. Input voltage: 90-264 VAC. Maximum inrush current: 25 A (35A; 2400W).
COOLING	One integrated fan module with high pressure fans.
ENVIRONMENTAL	Normal operating temperature: 10°C to 35°C (50°F to 95°F). Expanded operating temp: -5°C to 45°C (23°F to 113°F) with some restrictions. Storage temp: -40°C to 65°C (-40°F to 149°F).

TRACEWELL SYSTEMS PRODUCT CONFIGURATIONS

CHASSIS	Tracewell T-C6420 supports: Single or Dual Intel CPUs. Up to 28 cores per CPU, up to 2048GB RAM, 1 LP PCIe slot, up to 24 2.5" SATA/NVMe drives, 110/220AC. Tracewell T-C6525 supports: Single or Dual AMD CPUs. Up to 64 cores per CPU, up to 2048GB RAM, 2 LP PCIe slots, up to 24 2.5" SATA/NVMe drives, 110/220AC. Note: Future product variant will support 1 full-size PCIe slot (FHFL-DW) for high performance GPU and FPGA cards.
DIMENSIONS	T-C6420 / T-C6525 system: 20.7"D x 9.1"W x 5.8"H. T-C6420 / T-C6525 system installed in ATA carry-on compliant transit case: 22.0"D, 9.0"W x 12.3" H.

For more information, see the Tracewell T-C6420 / T-C6525 (1 Node) Data Sheet.

ABOUT TRACEWELL SYSTEMS

For more than 40 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.