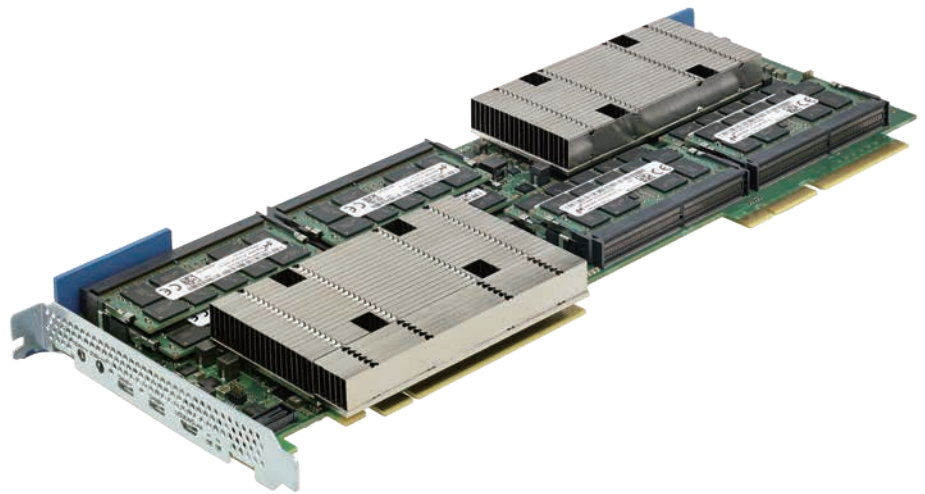


SharpServer™ PCIE-7410 Dual-Processor Server for Artesyn MaxCore™ Systems

Dual Intel® Xeon®-D PCIe Server Card

- Two Intel® Xeon® D-1541 (8-core) or D-1567 (12-core) processors
- Up to 64GB DDR4 per processor
- Up to 4x PCIe 3 x 4
- 2x 1 Gbps Ethernet to optional MaxCore™ internal Ethernet switch
- 1 x USB per processor
- CentOS 7.x support

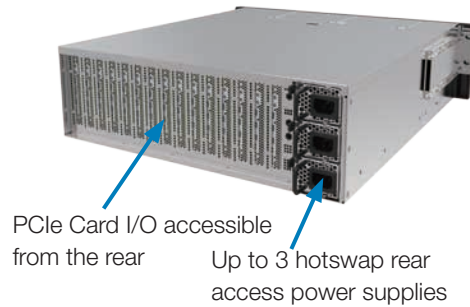
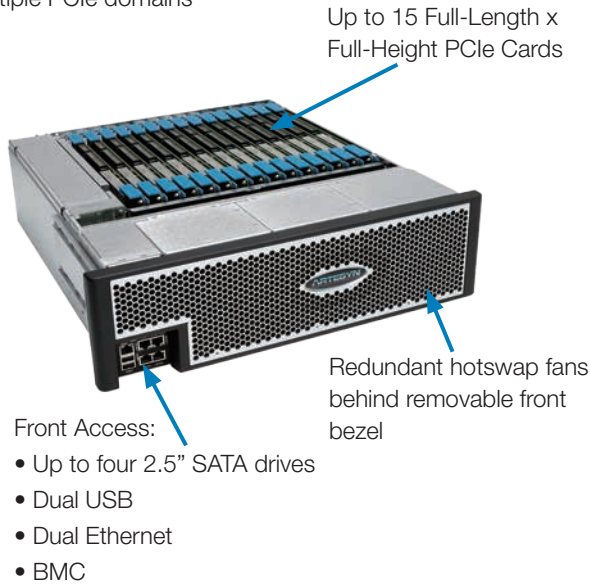
The SharpServer™ PCIE-7410 card is a high core density PCIe server card designed specifically for the Artesyn MaxCore™ platform. With dual Intel® Xeon®-D processors, the PCIE-7410 can deliver up to 24 cores of processing power per card and up to 360 cores per 3U MaxCore™ system. Typical applications include system management, vRAN baseband processing, Multi-access Edge Computing (MEC), application processor for video streaming and security gateway processing.



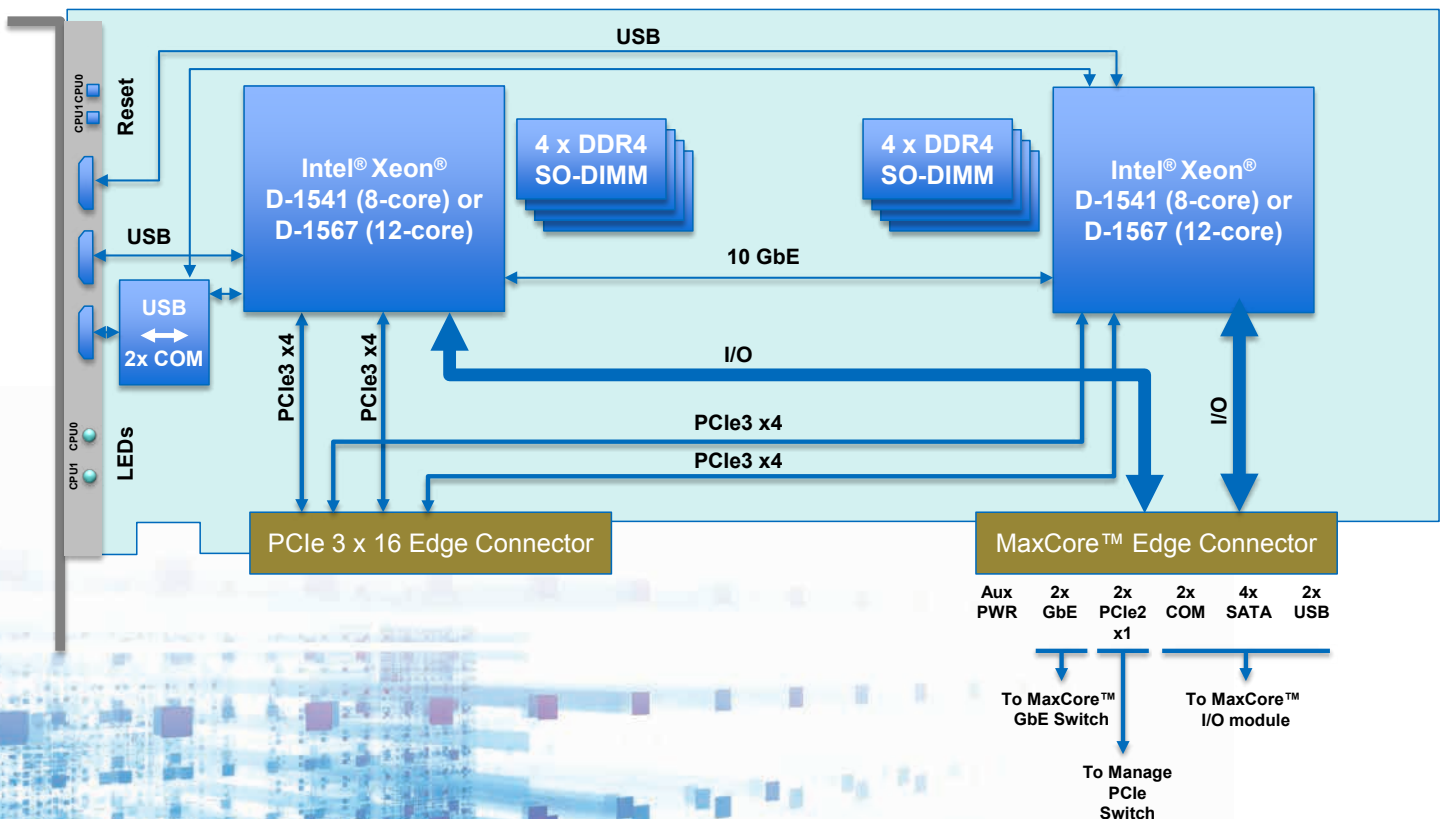
MaxCore™ Host Platform

- The SharpServer™ PCIE-7410 is designed specifically to operate in Artesyn's MaxCore™ Platform providing maximum core density
- Up to 15 SharpServer cards for a total of 30 Intel® Xeon®-D processors or 360 Xeon® cores per system
- PCIe fabric that can operate as a single domain or be split into multiple PCIe domains

- A second edge connector in each slot that accommodates features unique to many of Artesyn's PCIe cards
 - Cable-less auxiliary power
 - Embedded Gigabit Ethernet network to each slot
 - Additional I/O such as SATA or USB that can be routed from the management CPU PCIe card to the front I/O panel of MaxCore Platform
 - MaxCore accommodates 3rd party standard-off-the-shelf PCIe cards as well as Artesyn's PCIe cards with 2nd MaxCore connector
- Up to three 1100W AC power supplies
- Redundant hotswap fans
- 3U x 508mm for mounting in a standard 19" rack



PCIE-7410 Block Diagram



Processor

- Dual Intel® Xeon® D-1541 or D-1567 processors (formerly Broadwell)
 - D-1541: 8 cores, 2.1 GHz, 45 Watts
 - D-1567: 12-cores, 2.1 GHz, 65 Watts
- 10GbE connection between processors
- Single processor variant for management CPU (mCPU) functionality only
 - D-1521: 4 cores, 2.4 GHz, 45 Watts

Memory

- 4 x DDR4 SoDIMM sockets per CPU
- Up to 16GB per SoDIMM for a total of up to 64GB per CPU
- Optional SD card to each CPU

Front Panel

- 1 x USB to each processor
- USB/UART connector with USB-UART bridge to support both processors
- 2-Color indicator LEDs for each processor
- Reset for each processor

Other I/O

Additional I/O is routed from each CPU to the MaxCore™ edge connector. SATA, COM and USB are routed to the MaxCore™ I/O panel for front access. 1 Gigabit Ethernet is routed to support MaxCore™ Platform's integrated Ethernet network between the cards. PCIe2 x 1 supports configuration of MaxCore™'s PCIe fabric switch.

- From each CPU to the unique MaxCore™ edge connector
 - 1 x COM
 - 2 x GbE
 - 1 x PCIe2 x 1
 - 2 x SATA
 - 2 x USB

Environmental

- Card power consumption
 - Dual D-1541 processors: Estimated 110 Watts
 - Dual D-1567 processors: Estimated 150 Watts

Ordering Information	
Model	Description
PCIE-7410-1	MICROSERVER FOR MaxCore™ - 1X 4-CORE CPU, 16GB MEMORY PER CPU
PCIE-7410-2	MICROSERVER FOR MaxCore™ - 2X 8-CORE CPU, 32GB MEMORY PER CPU
PCIE-7410-22	MICROSERVER FOR MaxCore™ - 2X 12-CORE CPU, 64GB MEMORY PER CPU

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