MaxPac® A-Class 8032A
Custom Designed to meet the demands of those needing 4 PCIe x4 slots

The MaxPac® 8032A is a member of the MaxPac® A-Class and features a Core i7 processor, up to 32GB of DDR3 memory and 4 option slots designed to be accessible from the top of the chassis without the use of tools. Designed to operate in 0 to 50°C and conservatively even in high dust environments. This product provides an exceptional fresh air path, insuring the user provided add-in cards to operate in the best possible environment at the lowest possible temperatures. With a 600 watt global power supply, the MaxPac® 8032A can handle any power load the user requires. Up to ten 2.5" removable hard disk can be configured (2 mirror pair system disk and 8 for a data raid array).

The standard configuration provides the following slots: PCIe x 16, PCIe x 1, and legacy PCI. Another option is for four PCIe x 4 slot using x16 connectors and a fifth PCIe x4 slot embedded, supporting an 8 channel RAID controller. This has been found to be a quite useful in wide bandwidth data acquisition and recording applications where 8 SSD are used in a removable disk array, supporting up to 6.4TB (8x800GB SSD drives) with demonstrated streaming bandwidths of 1GB/sec.

Given that this configuration is typically used for I/O card payloads, the 17" 1280 x 1024 display, is typically driven from onboard graphics. However, optional high performance cards can be configured. As with most MaxPac® designs, this is also a box-in-box construction and provides a new level of protection against drops and tip overs, even outside the transit case. MaxVision®'s custom K&N intake air filter provides protection against the finest dust particles without undesirable backpressure.

MaxPac® A-Class 8032A

Processor	3rd generation Intel Core i7 or 3rd generation Intel Core i5 processor.
Memory	4GB expandable to 32GB.
Motherboard	Intel DQ77MK uATX LGA1155/Q77
LCD Size	17" 1280 x 1024
LCD Specifications	170°H/160°V viewing angle, 250 nits, 1500:1 contrast ratio, 16.7M colors, 8ms response time.
Video Interface	DVI-D from motherbaord standard, optional external from the mother board can be supported. Additional higher performance nVidia card are available and require PCIe x 16 connector slot.
Video Controller	Integrated motherboard, with nVidia card optional.
Std I/O Interface	Two integrated GbE, Serial Port, two USB3, four USB2, one eSATA, two SATA6, two SATA3, 1394, Audio/Speaker.
PCI Expansion Slots	Four PCIe x4 (x16 mechanical) plus embedded PCIe x4 slot for integrated RAID controller. Optionally configured PCIe x16, PCIe x4, PCIe x1, PCI can be provided.
PCI Slot Lengths	Lengths 9" with eight drive removable 2.5" array. 13" without the eight drive removable array.
Keyboard	88 keys with integrated touch pad and waterproof rubber keyboard.
Removable Hard Drives	Ten removable 2.5" SATA/SSD (2 via motherboard, 8 via PCIe RAID).
Power Supply	600 Watts 90-264VAC 50-60Hz.
Software OS	Windows 7 Pro, Windows 2010 Server, Linux: Redhat Enterprise Linux 5, SuSE 9.0, Solaris 10.
Size	19" W x 16.3" H x 7.4" D.
Environmental	0 to 50°C, 10-90% relative humidity.
Transit Case (Optional)	Pelican® 1610 with custom foam.
Weight	28 lbs.
Weight w/ Case	48 lbs.

The 8032A utillizes the latest and greatest keyboard as a screen protector and is easily accessible when the computer is needed for use in the field.

The I/O is layed out for easy access and the ability to connect through a number of different means.

Simple tool-less access allows for quick access to air filter and option cards. The top piece, including the filter, is removable using the four thumb screws, while the option cards become accessible after removing a latched plate underneath the filter.