

# PCI6120

Managed PCIE/104 12 port Gigabit Ethernet Smart Switch with MacSec and IEEE 1588

## Powerful, Flexible

## Layer 2+ Managed Smart Switch

The Orion PCI6122 PCIE/104 12 port Gigabit Smart Switch is the industry's most flexible, rugged, high-performance switch in today's embedded marketplace. Our small size, MacSec, IEEE 1588 support, 24 port expandability options make it ideal for military and industrial and commercial applications.

By incorporating layer 2+ management capabilities in a stackable or stand alone configuration, we offer high performance switching capabilities in a versatile small form factor.

Available in 5 levels of ruggedization, from commercial temperature air-cooled to extended temperature with MacSec and IEEE 1588 support. The unit can be packaged in our rugged enclosure or added to an existing stack.

With layer 2+ management, MacSec, IEEE 1588 timing support, 12 ports expandable to 24, stand alone, packaged or added to an existing PCIE/104 stack the Orion PCI6122 smart switch is truly a high performance versatile switch for any application.

## Features

- Twelve 10/100/1000Mbps copper Ethernet ports with non-blocking wire-speed performance
- Expandable to 24 Ethernet ports
- IEEE 1588 Precision Time Protocol with hardware based time stamping for one-step or two-step clocks
- MacSec Security Options
- 1 2.5G SFP socket
- Dual leaky bucket policing per queue and per port
- Jumbo frame support at all speeds
- 8192MAC addresses and 4096 VLANs
- Link aggregation traffic distribution programmable based on layer 2 through Layer 4 (IEEE 802.3ad)
- Multicast and broadcast storm control, as well as flooding control
- Rapid Spanning Tree protocol (802.1W)
- Multiple Spanning Tree Protocol(802.1s)
- Multicast 8K L2 group address with 64 port mask
- 8K IPv4/IPv6 multicast groups
- Carrier Ethernet Provider Bridge (Q-in-Q) switch
- 8 QoS queues per port Full-Duplex flow control (802.3x)
- Built-in 416MHz MIPS 24KEC microcontroller for configuration and management , CPU frame extraction and injection
- RS-232 serial port provides out-of-band management interface
- Stand alone or PCIE104 stackable with or without a rugged enclosure
- PCIE/104 Form Factor
- -40°C to +85°C (-40°F to +185°F) operating temperature