

# PROTOKRAFT INTRODUCES MUSTANG SERIES OF \*TFOCA II® JAM NUT ETHERNET OPTICAL MEDIA CONVERTERS

## Protokraft's *Mustang Series* Jam Nut TFOCA II® Ethernet Optical Media Converters Improve Optical Network Performance and Reliability While Reducing Space and Weight Requirements

Kingsport, TN, July 19, 2010 -- Protokraft today announced the availability of its *Mustang Series* of Fast or Gigabit Ethernet media converters with Jam Nut TFOCA II® connector interfaces to improve optical network performance and reliability in harsh environment applications. Protokraft *Mustang series* fiber optic Ethernet media converters consist of optoelectronic transmitter and receiver functions integrated along with the 10/100Base-TX to FX or 1000Base-T to LX/SX Ethernet optical media conversion circuitry into an environmentally sealed unit with an Amphenol Fiber Systems International TFOCA II® optical connector interface.



Protokraft introduced the *Mustang Series* of Jam Nut Ethernet Optical Media Converters with Amphenol Fiber Systems International's TFOCA II® optical interfaces for military, petrochemical, mining, industrial or utility applications where significant levels of shock, vibration and extreme temperature ranges are experienced. These components integrate the functions of Ethernet optical media converters into the shell of a standard TFOCA II® optical connector. These components are designed for use in harsh environments where small size, weight reduction and resistance to harsh environments are valued.

Protokraft's new *Mustang Series* of Jam Nut Ethernet Optical Media Converters support both Fast or Gigabit Ethernet and multimode or single mode fiber optic links. All versions are fully compliant with the applicable IEEE or Mil requirements.

## FEATURES

- Compliant with IEEE-802.3:2005 Fast or Gigabit Ethernet
- Optical fiber link distances up to 10.0 Kilometers
- Operating temperature range from -40°C to +85°C
- Shock, vibration and ESD resistant per Mil-Std-810
- Zinc-Nickel plating meets stringent EMI / RFI performance specifications
- Aluminum alloy case and connectors are strong, durable and corrosion resistant
- TFOCA II® compliant optical fiber connector interface from Amphenol Fiber Systems International
- Mounts in existing TFOCA II® Jam Nut front panel cutouts

The *Mustang* media converter's optical transmitters are high performance 1310nm FP Lasers or 850nm VCSEL's. The optical receivers consist of GaAs or InGaAs PIN and preamplifier assemblies and limiting post-amplifiers. The optical interface to the *Mustang series* Ethernet optical media converters is an

Amphenol Fiber Systems International TFOCA II® connector enabling interconnection to preterminated TFOCA II based optical fiber cable assemblies. The electrical interface to the Mustang series optical media converters is a MIL-DTL-83513 Micro D connector enabling interconnection to Ethernet switches, routers or Network Interface Cards (NIC).

Designed to operate in harsh environments, these media converters feature excellent thermal characteristics, high tolerance to vibration and shock and corrosion resistant aluminum housings for exceptional EMI/RFI performance. Standard case operating temperature range is -40°C to +85°C, with a standard storage temperature range of -55°C to +100°C. The Mustang Series Ethernet optical media converters operate at link distances up to 10.0 Kilometers. All operate from +3.3, +12.0, or +28.0VDC power supplies.

Protokraft's *Mustang* Series TFOCA II® Jam Nut Ethernet optical media converters are competitively priced compared to the typical pricing for discrete media converters designed for similar harsh environments. Small quantities are available now, with production quantities of all versions available during Q'4-2010.

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#### **About Protokraft, LLC**

Protokraft designs and manufactures high-speed optoelectronic components and subsystems for military and harsh environment networking equipment. The company provides transceiver subsystems for short-reach (1-meter to 20-kilometer) harsh environment optical-networking connections, including optical network switches, optical enterprise and storage area networks (SAN's), and tactical optical access networks. Protokraft is located in Kingsport, TN.

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\*TFOCA II® is a registered trademark of Amphenol Fiber Systems International