Amphenol FSI

TACBeam® FOM

Amphenol Fiber Systems International (AFSI) manufactures a complete line of next generation fiber optic connectors designed to meet the needs of harsh environment applications.

Amphenol Fiber Systems International (AFSI) offers the TACBeam® Fiber Optic Modem (FOM) to provide opitcal-electrical (O-E) and electrical-optical (E-O) conversion for harsh environments. This stand-alone unit features ruggedized optical transceivers integrated in a compact housing with single or dual T1 RJ48 electrical interfaces (additional electrical interfaces available-consult factory) and AFSI's TACBeam® 4-channel expanded beam connector.

The "plug and play" unit allows the systems engineers to effortlessly convert their systems to take advantage of the benefits of fiber optics without the need to design and develop harsh environment fiber optic transceiver electronics. Also, the TACBeam® FOM's compact size reduces the footprint devoted to O-E and E-O conversion by up to 50%.

The standard TACBeam® FOM provides conversion for G.703 T1 (1.544Mb/s) electrical signals via a standard RJ-48 to either multimode or single mode optical signals via AFSI's TACBeam®. The TACBeam® is compliant to the M83526/20 & /21 specification and uses expanded beam technology to reduce the impact of particulate matter on the optical performance. Expanded beam technology also facilitates the cleaning of the connector, reducing maintenance costs and improving up-time. Also, because the connector faces do not touch, the TACBeam® can be mated/demated far more than traditional physical contact connectors.

Features & Benefits :

- Effortlessly converts systems to fiber optics
- Compact size reduces O-E/E-O conversion by 50%
- Harsh environment transceivers support extended temperature range and military vibration/shock requirements
- Supports single mode or multimode operation
-

- Converts single or dual T1 signals (2 or 4 fibers)
- Compliant with M83526/20 & /21 optical interface and G.703 T1
- Expanded beam technology
- Lower maintenance costs
- Increases up-time

Amphenol FSI

TACBeam® FOM

Applications:

- Military command shelters and platforms
- Military fire control
- Satellite communications
- Fiber optic infrastructures
- Sensor systems
- Vehicles
- Radars

TACBeam FOM® Specifications:

Specification	Measurement/Detail
Fiber Supported	-62.5/125 microns
Output Power	-10dBm (min), -4dBm (max)
Transmit Extinction Ratio	8dB (min), 10dB (max)
Power	3.3 VDC (3.0-3.6) or 12 VDC (5-18) or 24 VDC (18-32); 2W max
Receive Sensitivity	-25dBm (min), -27dBm (typ), 0dBm (max)
Operating Temperature	-40 to +85°C
Electrical Interface	Single or dual G.703 T1 via RJ-48

How to Order :

For more information on how to order or to obtain a price quote on any of our TACBeam® FOM products, please call us at 800-472-4225. For international calls please dial 214-547-2400 or e-mail us at info@fibersystems.com.

About Amphenol Fiber Systems International :

Amphenol Fiber Systems International (AFSI) designs, manufactures, markets and supports reliable and innovative fiber optic interconnect solutions that withstand the harsh environments of military, oil & gas, mining and broadcast applications.

After more than two decades in business, AFSI continues to uphold its position as a global leader in fiber optic interconnect components and systems such as termini, M28876, MIL-ST, TFOCA and the TFOCA-II® connector, which AFSI developed and patented.

AFSI has delivered millions of fiber optic connectors in more than 34 countries. Whenever there is a need for superior, cost-effective fiber optic systems and products that will stand up to demanding operating environments, you can rely on AFSI for engineering know-how, top-quality products and expert technical support.

Visit **www.amphenol-fsi.com** for more information.

Amphenol Fiber Systems International, Inc. | 1300 Central Expressway N, Suite 100 Allen, TX 75013
Phone: (214) 547-2400 | Email: sales@fibersystems.com | Website: amphenol-fsi.com
Amphenol Fiber Systems International (AFSI), a division of Amphenol Military & Aerospace Operations (AMAO), is the largest manufacturer of harsh environment fiber optic cable assemblies & connectors in the world. Visit AMAO at amphenolmao.com.