TigerFMC

OPTICAL COMMUNICATION @ 336 Gbps

TECHWAY
SIGNAL VISION SYSTEM

Up to 12 full duplex optical links | Up to 25 Gbps

APPLICATIONS

- Video broadcast & switching
- Legacy system upgrade
- RADAR/SONAR
- Electronic warfare
- Telecom
- Avionics

BENEFITS

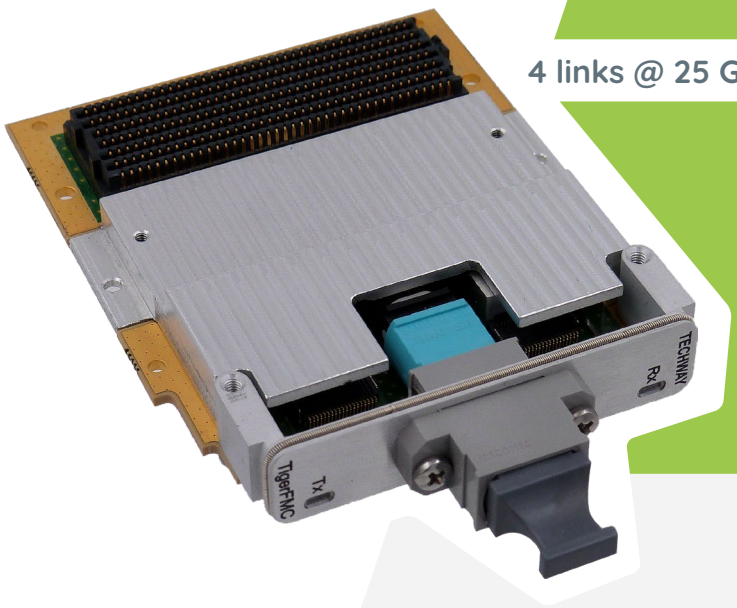
- **Ready-to-use :**
  - 100% FMC and FMC+ compliant
- **Easy-to-use :**
  - No specific firmware required
- **Protocol agnostic**
- **Suitable for legacy issue**

KEY FEATURES

- **VITA 57.1 and 57.4 compliant**
- **Up to 12 full duplex links**
- **Up to 25 Gbps per link**
- **Front connection :**
  - MTP24-M connectors
  - MTP12-M connectors
- **Rear connection (on demand) :**
  - MT ferules
- **Programmable oscillators**
- **Standard temperature :**
  - 0°C to 70°C
- **Extended temperature :**
  - -40°C to 85°C

INDUSTRY

DEFENCE



4 links @ 25 Gbps

High-speed optical communications have become the new standard of real-time data-intensive integrated systems. TECHWAY brings you a very compact and efficient solution with the TigerFMC product range.

Taking advantage of the SAMTEC's FireFly™ Micro Flyover System™ optical modules, TigerFMC solutions offer an overall throughput up to 336 Gbps.

All the TigerFMC mezzanine cards can be easily integrated into existing systems such as VPX boards, or into brand-new architectures. Compliant with VITA 57.1 and VITA 57.4 standards, they fit all FMC and FMC+ carrier boards.

Available in commercial or industrial version, the TigerFMC solutions are compliant with both air and conduction cooled environments.

FMC+ compliant (VITA 57.4)

- **TigerFMC-12_1 :** VITA 57.4 Optical FMC, 12 full duplex links @ 14 Gbps, MTP24-M connector, Standard temperature.
- **TigerFMC-12_1_I :** VITA 57.4 Optical FMC, 12 full duplex links @ 14 Gbps, MTP24-M connector, Extended temperature.
- **TigerFMC-4_2 :** VITA 57.4 Optical FMC, 4 full duplex links @ 25 Gbps, MTP12-M connector, Standard temperature.

NEW

- **TigerFMC-4_2_I :** VITA 57.4 Optical FMC, 4 full duplex links @ 25 Gbps, MTP12-M connector, Extended temperature.

For **VITA 57.1** versions, please feel free to contact us.

Information and photos subject to change without notice

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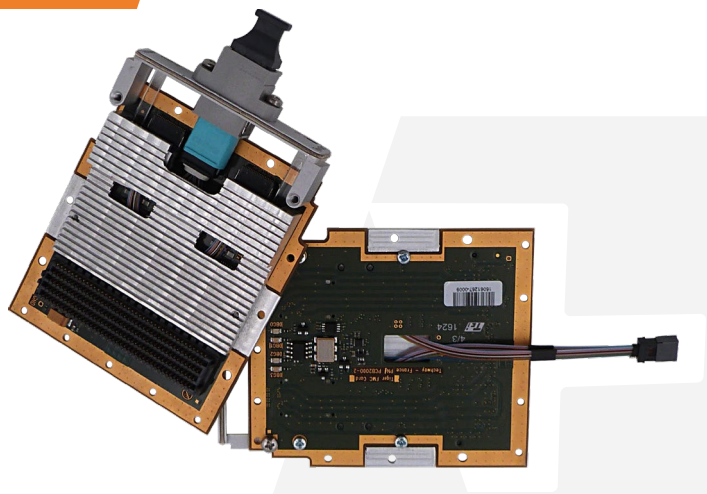
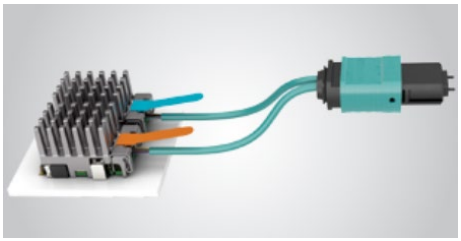


ORDERING INFORMATION

- **TigerFMC-12_1**
  - VITA 57.4 Optical FMC, 12 full duplex links @ 14 Gbps, MTP24-M connector, Standard temperature.
- **TigerFMC-12_1_I**
  - VITA 57.4 Optical FMC, 12 full duplex links @ 14 Gbps, MTP24-M connector, Extended temperature.
- **TigerFMC-4_2**
  - VITA 57.4 Optical FMC, 4 full duplex links @ 25 Gbps, MTP12-M connector, Standard temperature.
- **TigerFMC-4_2_I**
  - VITA 57.4 Optical FMC, 4 full duplex links @ 25 Gbps, MTP12-M connector, Extended temperature.

FireFly™ FEATURES

- **Future proof**
- **Miniature footprint**
- **High-performance versatility**
- **Highest density**
- **Ease of routing**
- **Ease of assembly**
- **Signal integrity**



FireFly™ text and image
FireFly-brochure - SAMTEC

FireFly™ TECHNOLOGY

The SAMTEC's FireFly™ Micro Flyover System™ is the first interconnect system that gives a designer the flexibility of using micro footprint optical and copper interconnects interchangeably with the same connector system.

The FireFly™ system enables chip-to-chip, board-to-board, on-board and system-to-system connectivity at data rates up to 28 Gbps. FireFly™ is based on a high-performance interconnect system which allows the use of low-cost copper cables or high-performance active optical engines.

SAMTEC copper, equalized copper, and optical cable systems provide the flexibility to achieve higher data rates and/or greater distance needs while simplifying board design and enhancing performance.

The FireFly™ Micro Flyover System™ is the first inside-the-box interconnect system that gives designers the choice of using either micro footprint high-performance active optical engines or low-cost copper interconnects. This allows the designer to upgrade from electrical to optical FireFly™ using the same connector system.

ADD-ON PRODUCTS

In addition to the TigerFMC products, we deliver add-on products such as cables and connectors.

OPTICAL CABLES - 24 links versions available.

- MTP to LC harness
- MT Ferule to LC harness

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