

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

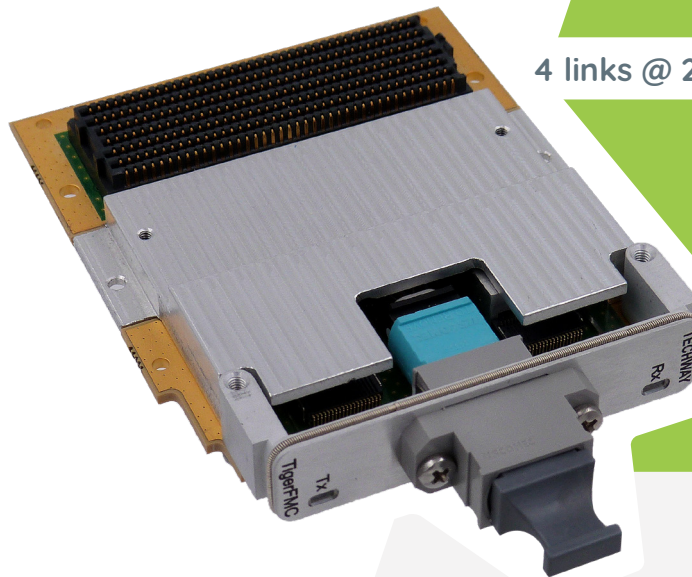
- VITA 57.1 and 57.4 compliant
- Up to 12 full duplex links
- Up to 25 Gbps per link
- **Front connection :**
  - MTP24-M connectors
  - MTP12-M connectors
- **Rear connection (on demand) :**
  - MT ferules
- **Programmable oscillators**
- **Standard temperature :**
  - 0°C to 70°C
- **Extended temperature :**
  - -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.
- **TigerFMC-4\_2.I** : VITA 57.4 Optical FMC, 4 full duplex links @ 25 Gbps, MTP12-M connector, **Extended temperature**.

NEW

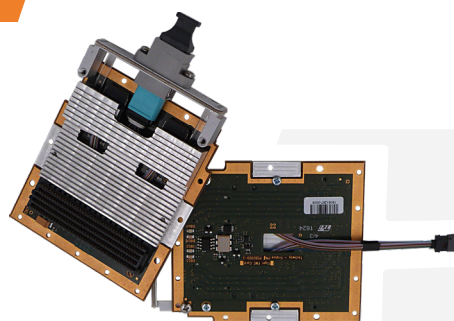
For VITA 57.1 versions, please feel free to contact us.

Information and photos subject to change without notice



## ● FIREFLY™ FEATURES

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



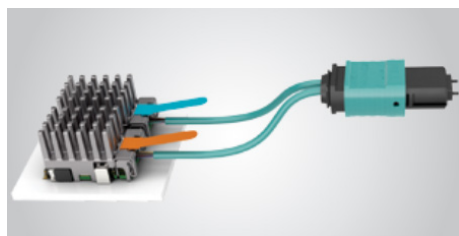
## FIREFLY™ TECHNOLOGY

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.



FireFly™ text and image  
FireFly-brochure - SAMTEC

## ORDERING INFORMATION

# (P/N)	Reference	Description
PDC004400	TigerFMC-12_1	VITA 57.4 Optical FMC, 12 full duplex links @ >10 Gbps, MTP24-M connector, Standard temperature
PDC004401	TigerFMC-12_1_I	VITA 57.4 Optical FMC, 12 full duplex links @ >10 Gbps, MTP24-M connector, Extended temperature
PDC005300	TigerFMC-4_2	VITA 57.4 Optical FMC, 4 full duplex links @ 25 Gbps, MTP12-M connector, Standard temperature
PDC005301	TigerFMC-4_2_I	VITA 57.4 Optical FMC, 4 full duplex links @ 25 Gbps, MTP12-M connector, Extended temperature
<i>Accessories</i>		
ACC00004	Breakout optical cable MTP24-F to 24xLC	MTP24-F to 24xLC simplex harness, length 2m
ACC00048	Cable Extender Trunk MTP24-F 1m Polarity A	MTP/MP0 Trunk cable OM4 24-Core MTP (Female) to MTP (Female), Polarity Type A, purple, length 1m
ACC00009	Breakout optical cable MTP12-F to 8xLC	MTP12-F to 8xLC simplex harness, length 1m
ACC00067	Cable Extender Trunk MTP12-F 1m Polarity B	Optical Trunk cable MTP12-F to MP12-F, length 1m, Polarity B
ACC00073	Optical Loopback Module, 24 CH, 850nm, MTP24-F	Optical Loopback Module, 24 CH, 850nm, MTP24-F

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# Mouser Electronics

Authorized Distributor

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## Techway:

[BREAKOUT MTP12-F TO 8XLC](#) [BREAKOUT MTP24-F TO 24XLCO](#) [EXTENDER MTP12-F 1M POLARITY B](#)  
[EXTENDER MTP24-F 1M POLARITY A](#) [LOOPBACK 24CH, 850NM, MTP24-F](#) [TIGERFMC-12\\_1](#) [TIGERFMC-12\\_1\\_I](#)  
[TIGERFMC-4\\_2](#) [TIGERFMC-4\\_2\\_I](#)