

Up to 12 full duplex optical links @ 14 Gbps

## APPLICATIONS

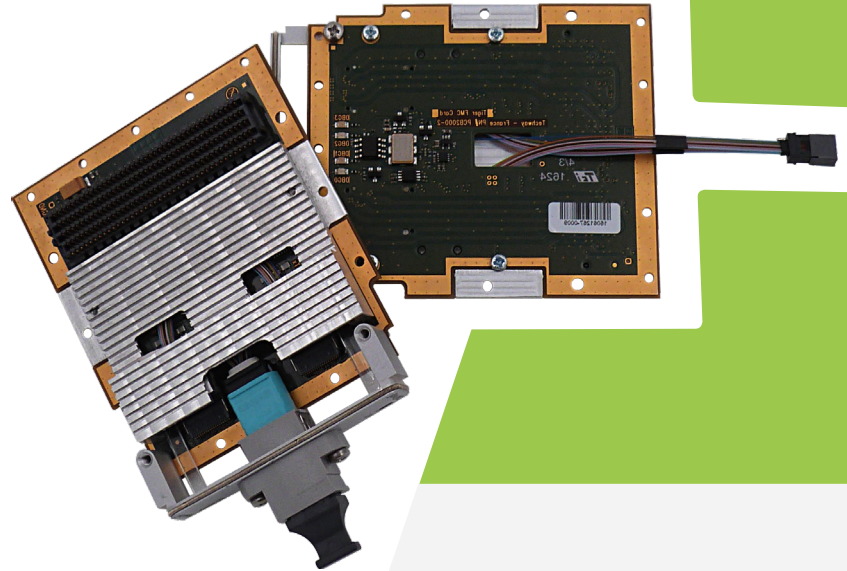
- Video broadcast & switching
- Legacy system upgrade
- RADAR/SONAR
- Electronic warfare
- Telecom
- Avionics

## BENEFITS

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

## KEY FEATURES

- VITA 57.1 or 57.4 compliant
- Up to 12 full duplex links
- Up to 14 Gbps per link
- Front connection :
  - 24M-MTP connectors
- Rear connection (on demand) :
  - MT ferules
- Programmable oscillators
- Air cooled :
  - Temperature range : 0°C to + 55°C
- Conduction cooled :
  - Temperature range : - 20°C to + 70°C



Optical communications have become the new standard of data-intensive integrated systems.

TECHWAY brings you a very compact and efficient solution with the TigerFMC product range.

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

## FMC compliant (VITA 57.1)

- **TigerFMC-10\_10** is a FMC compliant (VITA 57.1) mezzanine card which offers 10 full duplex optical links @ 10 Gbps each.

## FMC compliant (VITA 57.4)

- **TigerFMC-12\_14** is a FMC+ compliant (VITA 57.4) mezzanine card which offers 12 full duplex optical links @ 14 Gbps each.

All the TigerFMC mezzanine cards can be easily integrated into existing systems, such as VPX boards, or into brand-new architectures.

Available in a commercial or an industrial version, the TigerFMC is compatible with both air and conduction cooled environment.

 INDUSTRY

 DEFENCE



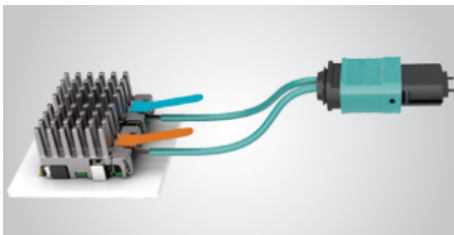
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## ORDERING INFORMATION

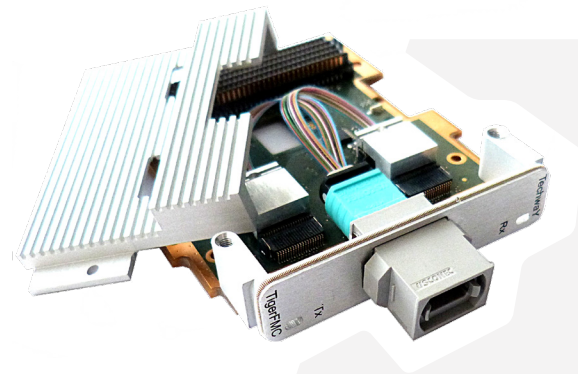
- **TigerFMC-10\_10**
  - FMC mezzanine w/10 full duplex @ 10 Gbps links
- **TigerFMC-12\_14**
  - FMC mezzanine w/12 full duplex @ 14 Gbps links

## 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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