# TIGERFMC

OPTICAL COMMUNICATION @ 336 GBPS



# 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

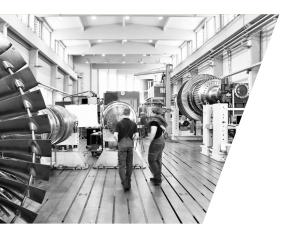
- VITA 57.1 and 57.4 compliant
- Up to 12 full duplex links
- Up to 25 Gbps per link
- Front connection :
- MTP24-M connectors
- MTP12-M connectors
- Rear connection (on demand):
- MT ferules
- Programmable oscillators
- Standard temperature :
- 0°C to 70°C
- Extended temperature :
- -40°C to 85°C



## INDUSTRY



## DEFENCE





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<sup>™</sup> Micro Flyover System<sup>™</sup> 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 @ >10 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





# TIGERFMC

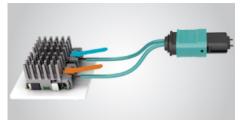
OPTICAL COMMUNICATION @ 336 GBPS





### FIREFLYTM 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<sup>TM</sup> Micro Flyover System<sup>TM</sup> 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<sup>TM</sup> using the same connector system.

### ORDERING INFORMATION

# (P/N)	Reference	Description
PDC004400	TigerFMC-12_1	VITA 57.4 Optical FMC, 12 full duplex links @ >14 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
Accessories		
ACC00004	Optical Breakout Cable for TigerFMC-12_X_X	MTP24-F to 24xLC simplex harness, length 2m
ACC00048	Optical Breakout Cable for TigerFMC-12_X_X	MTP/MPO Trunk cable 0M4 24-Core MTP (Female) to MTP (Female), Polarity Type A, purple, length 1m
ACC00009	Optical Breakout Cable for TigerFMC-4_X_X + FireFly option	MTP12-F to 8xLC simplex harness, length 1m
ACC00067	Optical Breakout Cable for TigerFMC-4_X_X + FireFly option	Optical Trunk cable MTP12-F to MP12-F, length 1m, Polarity B
ACC00073	Optical Loopback Cable for TigerFMC-12_X_X	Optical Loopback Module, 24 CH, 850nm, MTP24-F

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