

# WILDCATFMC

HIGH-SPEED HIGH-DENSITY OPTICAL COMMUNICATION

**TECHWAY**  
SIGNAL VISION SYSTEM

Rugged for harsh environments

## 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**
- **Air or conduction cooled**

## KEY FEATURES

- **VITA 57.1 and 57.4 compliant**
- **Up to 12 full duplex links**
- **Up to 12 Gbps per link**
- **Front connection : MTP or C-MTITAN**
- **Rear connection on demand**
- **Programmable oscillators**
- **Air cooled :**
  - Temperature range : -20°C to 70°C
  - MTP connector
- **Conduction cooled :**
  - Temperature range : -40°C to 85°C
  - C-MTITAN connector



Optical communications have become the new standard in harsh and demanding environments. TECHWAY brings you a state-of-the-art solution with the WildcatFMC product range. These rugged optical FMCs are dedicated to markets where customers have strong environmental requirements.

Based on the latest RADIALL's D-Lightsys<sup>®</sup> components, WildcatFMC solutions offer up to 12 optical links at 12 Gbps per link.

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

The WildcatFMC solutions are compliant with both air and conduction cooled environments.

## FMC compliant (VITA 57.1)

- **WildcatFMC-4\_0\_X** is a mezzanine card which offers 4 full duplex optical links at 10 Gbps per link.

## FMC+ compliant (VITA 57.4)

- **WildcatFMC-4\_1\_X** is a mezzanine card which offers 4 full duplex optical links at 12 Gbps per link.
- **WildcatFMC-12\_1\_X** is a mezzanine card which offers 12 full duplex optical links at 12 Gbps per link.

DEFENCE

INDUSTRY



Information and photos subject to change without notice

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## ORDERING INFORMATION

### WildcatFMC-4\_0\_X

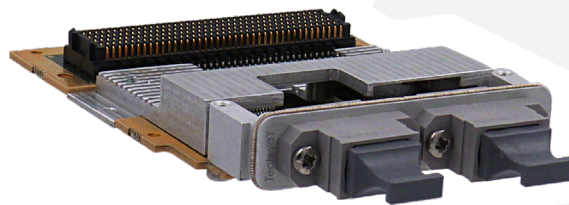
- VITA 57.1 Optical FMC, 4 full duplex links @ 10 Gbps
- X = MTP : Front MTP12-F connector, MTITAN : Front C-MTITAN connector

### WildcatFMC-4\_1\_X

- VITA 57.4 Optical FMC, 4 full duplex links @ 12 Gbps
- X = MTP : Front MTP12-F connector, MTITAN : Front C-MTITAN connector

### WildcatFMC-12\_1\_X

- VITA 57.4 Optical FMC, 12 full duplex links @ 12 Gbps
- X = MTP : Front 2x MTP12-F connectors, MTITAN : Front 2x C-MTITAN connectors



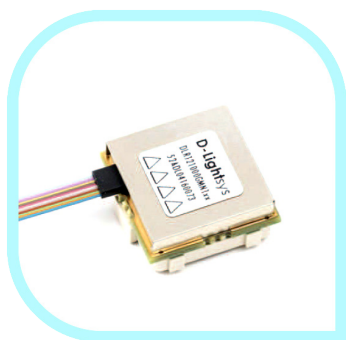
## OPTIONS

- Rear I/O
- 24 links
- Coating
- etc.

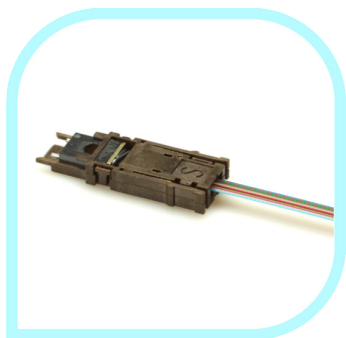
■ For more options, please feel free to contact us.

## D-LIGHTSYS® FEATURES

- Proven technology
- Small footprint
- Low consumption
- Qualified for harsh environments
- Wide operating parameters
- Benefits of RADIALL's optical interconnect range



D-Lightsys® text and image  
ACS 10GB handout - RADIALL



C-MTITAN™ text and image  
C-MTITAN handout - RADIALL

## D-LIGHTSYS® TECHNOLOGY

Since 2007, D-Lightsys® transceivers have been flying with military and commercial aircrafts and have proven to be the perfect solution for demanding applications.

The new 10+ G range utilizes D-Lightsys® technology and offers the unique benefits, including a very small footprint and extended link budget for applications where long term data transmission reliability is required. The low power consumption makes these modules especially suited for on board applications (aircraft, UAV, satellites).

Directly compatible with most digital balanced signal protocols, the 10+ G range meets IEEE std 10G Base-SR10, Fiber Channel, InfiniBand, SFPDP, sRIO and VSR requirements as well as ARINC 818 and DVI video standards.

The D-Lightsys® solutions are qualified for shock and vibration and are in compliance with MIL standards.

The unique embedded controller provides wide operating parameters including independent channel control, equalization/pre-emphasis and link survey data. These 10+ G devices include an internal control loop to ensure a constant link budget within an extended temperature range of -40/+85°C.

## ADD-ON PRODUCTS

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

**OPTICAL CABLES** - 8 or 12 links versions available.



- MTP to LC harness
- MT Ferule to LC harness
- MTP to MTP harness
- MTP to Elio connectors

**XILINX**  
ALLIANCE PROGRAM  
CERTIFIED

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