WildcatFMC

HIGH-SPEED HIGH DENSITY OPTICAL COMMUNICATION

Rugged for harsh environments

APPLICATIONS

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

BENEFITS

- Ready-to-use
  - 100% FMC or FMC+ compliant
- Easy-to-use
  - No specific firmware required
- Protocol agnostic
- Suitable for legacy issue
- Air cooled
- Conduction cooled

KEY FEATURES

- VITA 57.1 or 57.4 compliant
- Up to 24 links
- Up to 12 Gbps per link
- Front connection : MTP or C-MTITAN
- On-demand rear connection
- 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

DEFENCE

INDUSTRY

Optical communications have become the new standard in harsh, demanding environments.

TECHWAY brings you a state-of-the-art solution with the WildcatFMC series. These communication boards are dedicated to markets where customers have strong environmental requirements.

Based on the latest RADIALL D-Lightsys® components, the WildcatFMC solutions offer up to 24 channels @ up to 12 Gbps.

FMC compliant (VITA 57.1)

- **WildcatFMC-4_10** is a mezzanine card which offers 4 full duplex optical links at 10 Gbps each.

FMC+ compliant (VITA 57.4)

- **WildcatFMC-12_12** is a mezzanine card which offers 12 full duplex optical links at 12 Gbps each.
- **WildcatFMC-24-Tx_12** is a mezzanine card which offers 24 Tx (transmission) optical links at 12 Gbps each.
- **WildcatFMC-24-Rx_12** is a mezzanine card which offers 24 Rx (reception) optical links at 12 Gbps each.

All the WildcatFMC mezzanine cards can be easily integrated into existing systems or into brand-new architectures.

The WildcatFMC solutions are compatible with both air and conduction cooled environment.
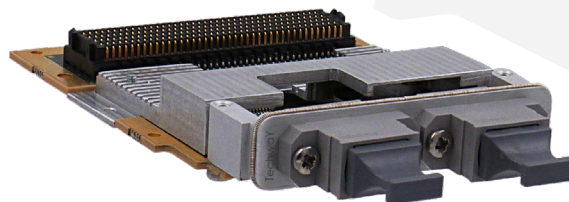
Information and photos subject to change without notice

WILDCATFMC

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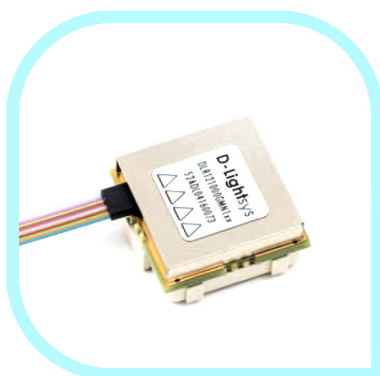
TECHWAY
SIGNAL VISION SYSTEM

ORDERING INFORMATION

- **WildcatFMC-4_10_F_X**
  - VITA 57.1 Optical FMC, 4 full duplex links @10 Gbps
  - X = AC : Air Cool or CC : Conduction Cooled

- **WildcatFMC-12_12_F_X**
  - VITA 57.4 Optical FMC, 12 full duplex links @12 Gbps
  - X = AC : Air Cool or CC : Conduction Cooled

- **WildcatFMC-24Rx_12_F_X**
  - VITA 57.4 Optical FMC, 24 Rx (reception) links @12 Gbps
  - X = AC : Air Cool or CC : Conduction Cooled

- **WildcatFMC-24Tx_12_F_X**
  - VITA 57.4 Optical FMC, 24 Tx (transmission) links @12 Gbps
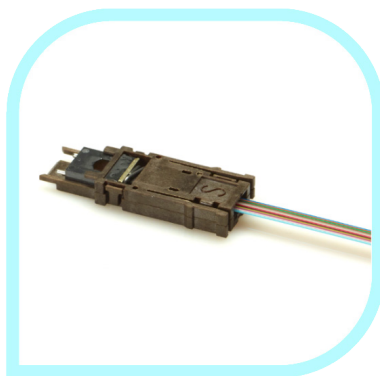 - X = AC : Air Cool or CC : Conduction Cooled

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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