TECHWAY unveils new family of optical FPGA Mezzanine Cards (FMC) at the Xilinx Developer Forum China. Let's join us at our booth to discover our high-speed high-density optical communications solutions.

Need to handle massive amounts of data in real-time? Move to optical FMCs
High-density: up to 24 optical links / High-speed: up to 25 Gbps

Beijing, China, Dec. 3, 2019 (Xilinx Developer Forum China) – TECHWAY, specialist in high-speed signal and video acquisition, has announced a new family of optical FPGA Mezzanine Cards (FMC) at the 2019 Xilinx Developer Forum (XDF) China.

XDF connects software developers and system designers to the deep expertise of Xilinx experts, partners, and industry thought leaders to gain the insights and inspiration needed to bring innovations to market faster, adapt to the rapidly changing world.

New generations of programmable components, including FPGAs, offer serial links which are always faster and denser. We answer these speed and density challenges by designing optical interfaces dedicated to high-bandwidth data-communication.

Our FPGA Mezzanine Cards (FMC) are 100% compliant with VITA 57.1 and VITA 57.4 standards to match with all carrier boards with FMC connectors. These optical FMCs are ready-to-integrate solutions, since there is no specific firmware required. Our optical FMCs offer advanced features such as the possibility to operate several different protocols concurrently thanks to a programmable multi-clock generator.

Available in industrial or rugged versions, TigerFMC and WildcatFMC product lines are based on two advanced optical technologies to meet two levels of ruggedization.

Based on RADIALL D-Lightsys® technology, WildcatFMCs are Mil-Aero-oriented. Indeed, these cards are rugged to meet the toughest environmental constraints.

- 4 full duplex channels @ 12 Gbps, VITA 57.1
- 12 full duplex channels @ 12 Gbps, VITA 57.4
- 24 full duplex channels @ 12 Gbps, VITA 57.4
- 24 Received channels @ 12 Gbps, VITA 57.4
- 24 Transmitted channels @ 12 Gbps, VITA 57.4

Based on SAMTEC FireFly™ technology, TigerFMCs are dedicated to industrial environments. The new TigerFMC-4_25 provides 4 full duplex links @ 25 Gbps – a cumulative throughput of 200 Gbps.

- 4 full duplex channels @ 12 Gbps, VITA 57.1
- 12 full duplex channels @ 14 Gbps, VITA 57.4
- 4 full duplex channels @ 25 Gbps, VITA 57.4

Among other industry segments, the TigerFMC and WildcatFMC cards are primarily designed for RADAR, SONAR, electronic warfare, telecommunications, video broadcast and switching, Avionics, etc.

More information about TECHWAY TigerFMC: https://www.techway.fr/portfolio/high-speed-density-optical-fmc/?lang=en, and WildcatFMC: https://www.techway.fr/portfolio/high-speed-density-optical-rugged-fmc/?lang=en.

Information about XDF is available at: https://www.xilinx.com/XDF.

About TECHWAY
TECHWAY develops advanced solutions for image and signal processing. Our ambition is to ease the use of complex technologies by offering pre-integrated solutions to reduce their integration system costs.

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