

XMC-FGX2-SDI-4IO

4K Video Capture, Convert, Transmit; with CoaXPRESS, SDI, Analog

KEY FEATURES

- WOLF Frame Grabber eXtreme 2 (FGX2) capture, convert and transmit engine
- Two CoaXPRESS inputs, up to CXP-6
- Two 12G-SDI inputs and up to four 12G-SDI outputs
- Up to three analog inputs and one VGA output
- Up to two DP inputs
- Low operating power, 12 to 25W (depending on options)

ADDITIONAL FEATURES

- PCIe x8 Gen3 with up to 7.88 GB/s in each direction
- Analog input formats: CVBS / STANAG 3350
- Optional 8Gb DDR4 RAM for additional app support
- Standalone Operation with Embedded Linux OS
- Windows and Linux drivers
- VxWorks RTOS drivers optional
- Extended product lifespan

SPECIFICATIONS

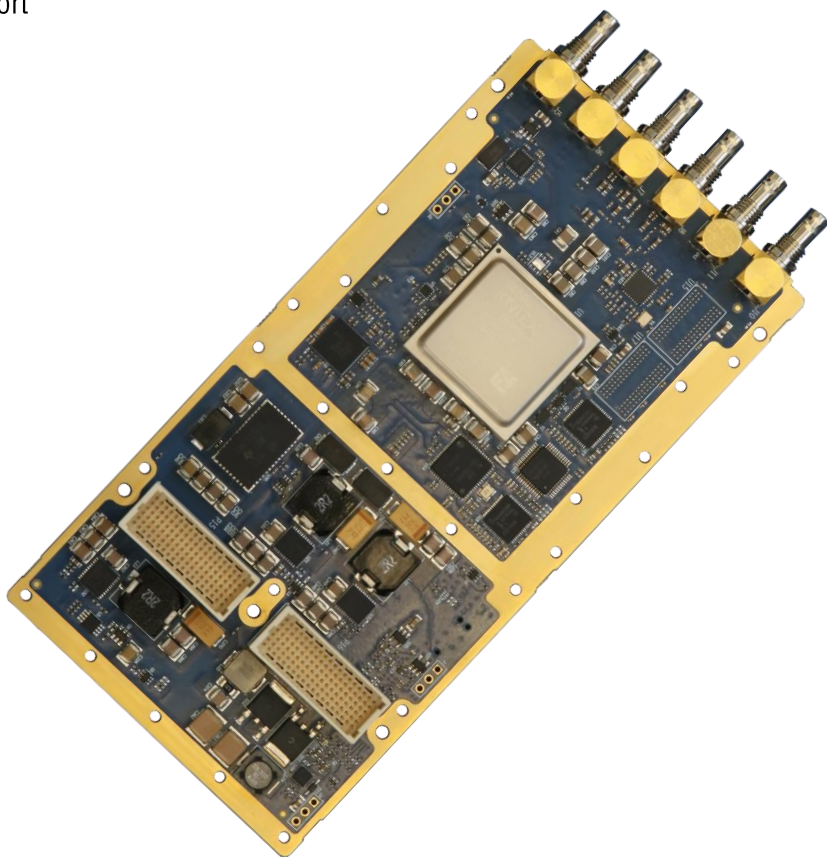
- High level of ruggedization:
 - Rugged air-cooled or conduction-cooled
 - Operating temperature: -40° to +85°C
 - Vibration (sine wave): 10G peak, 5 - 2000Hz
 - Shock: 30G peak for air-cooled, 40G peak for conduction-cooled
- VITA 46.9 I/O compliant mapping for 3U and 6U VPX configurations
- Front I/O and Rear I/O configurations
- Dimensions: 143.75mm x 74mm

OVERVIEW

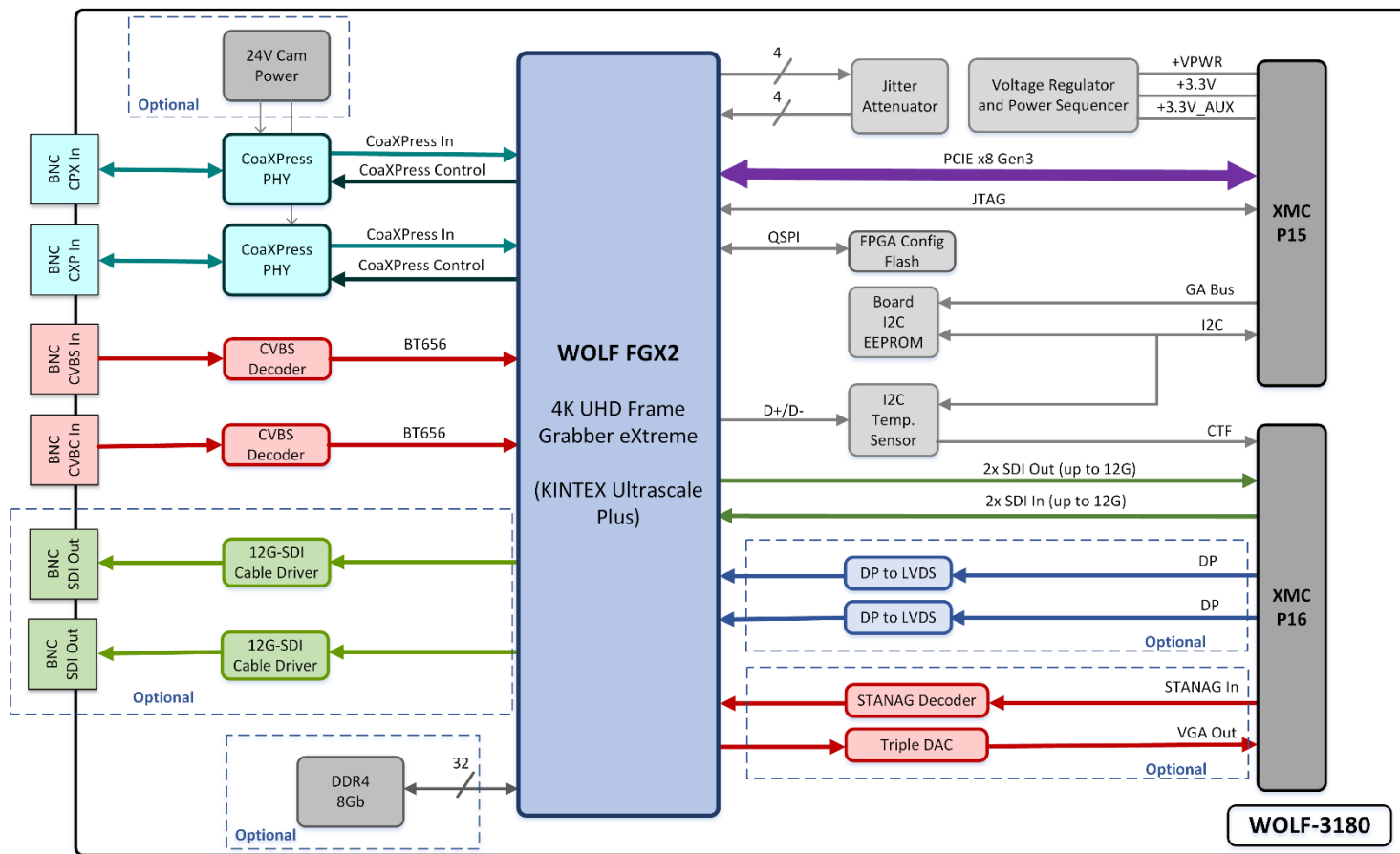
The FGX2 is WOLF's next generation frame grabbing technology, introducing support for 4K and distributed video while maintaining support for legacy analog systems.

The module represents a huge upgrade in efficiency with up to 8x the processing bandwidth compared to the previous generation FGX with a much higher channel count density. Support for new CoaXPRESS camera inputs is also included on this module.

The FGX2 is available on several WOLF products, all targeting different price points and performance capabilities.



XMC-FGX2-SDI-4IO



ORDERING CODES

The following table defines series of common order codes for the XMC-FGX2-SDI-410 module. The asterisks denote characters of the part number that are defined based on common configuration options. Some common configuration options for this module are:

- Conformal Coating Type
- Display Interfaces
- DDR4 Memory
- CoaXpress Camera Power
- COTS, MCOTS or Locked

Ordering Number	Description
318022-*3**XMCv10	XMC 2.0, Air Cooled, WOLF FGX2
318032-*3**XMCv10	XMC 2.0, Conduction Cooled, WOLF FGX2

Contact Sales for the latest Ordering Numbers and available options

MANUFACTURING AND QUALITY ASSURANCE

WOLF designs modules to pass the following environmental standards:

- MIL-STD-810 (United States Military Standard for Environmental Engineering Considerations and Laboratory Tests)
- MIL-HDBK-217 (Reliability Prediction of Electronic Equipment)
- RTCA DO-160 (Environmental Conditions and Test Procedures for Airborne Equipment) on request

WOLF complies with the following quality management systems:

- ISO 9001:2015: Quality management systems (certified)
- SAE AS5553: Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition (compliant)
- SAE AS9100D: Quality Management System - Requirements for Aviation, Space and Defense Organizations (preparing for certification in 2019)

Boards are manufactured to meet the following standards:

- IPC-A-610 CLASS 3 (Acceptability of Electronic Assemblies)
- IPC 6012 CLASS 3 (Qualification and Performance Specification for Rigid Printed Boards, Class 3 for High Reliability Electronic Products)
- IPC J-STD-001 (Requirements for Soldered Electrical and Electronic Assemblies)

