

MXC-FGX-SDI/CVBS

ULTRA LOW-LATENCY 3G/HD-SDI, CVBS VIDEO CAPTURE

Key Features

- WOLF FGX Xilinx Kintex-7
- Sub-frame Ultra Low Latency Capture
- Inputs:
 - 2 independent digital 3G/HD-SDI SMPTE-292M (e.g. 1920x1080 @ 30Hz) SMPTE-424M (e.g. 1920x1080 @ 60Hz)
 - 2 independent analog NTSC/PAL/SECAM

ADDITIONAL FEATURES

- Optional Outputs:
 - 2 independent digital 3G/HD-SDI SMPTE-292M (e.g. 1920x1080 @ 30Hz) SMPTE-424M (e.g. 1920x1080 @ 60Hz)
 - GPU Direct Output - DisplayPort 1.2 Conversion to 3G/HD-SDI
- Capture raw video over x4 PCI Express Gen2
- Ultra low power, under 7.5 Watts
- Extended 10+ year product lifespan
- Modifiable for alternate camera connections
- Pin compatible with MXC dedicated video I/O

SPECIFICATIONS

- High level of ruggedization
 - MIL-STD-810, IPC 6012 Class-3
 - -40° to +85°C operating temperature
 - 40g, 11ms shock
 - 0.2g²/Hz@ 5 - 2000Hz vibration
- Win 7 64bit, Linux drivers
- VxWorks, Integrity, LynxOS, and other RTOS drivers available
- MXC Type-A form factor: 85x70 mm
- 3U/6U VPX, Baseboard compatible

Harsh Environment Digital SDI / Analog Capture

Raw video capture for storage, analysis, enhancement, fusion, encode and display begins with the low cost, high reliability MXC-FGX-SDI/CVBS module. Four channel capture consists of two 3G/HD-SDI and two CVBS analog (PAL/NTSC) engines. Each engine is independent and streams raw data in sub-frame latency to the system or GPU via a PCI Express x4 interface with up to 2.0GB/s of throughput.

Promoted options of the module include pairing with GPUs for DisplayPort 1.2 to 3G/HD-SDI conversion, 3G/HD-SDI output and other capture interfaces such as STANAG 3350.

WOLF FGX Technology powered by Xilinx Series 7

The core of embedded video processing is the video capture engine. The WOLF Frame Grabber eXtreme (FGX) is built on Xilinx FPGA hardware; a high performance engine designed for COTS or MCOTS customization to interface with many camera standards or system hosts.

MXC – Upgradeable Embedded Video for OEMs

OEMs require next generation video capture, process, encode and display technologies. MXC modules deliver sub-frame latency capture, CUDA, OpenCL or OpenGL processing, encoding and independent APU capability in a small harsh rugged form factor. Add MXC upgradeability to your project and leverage the growing catalog of MXC solutions.

