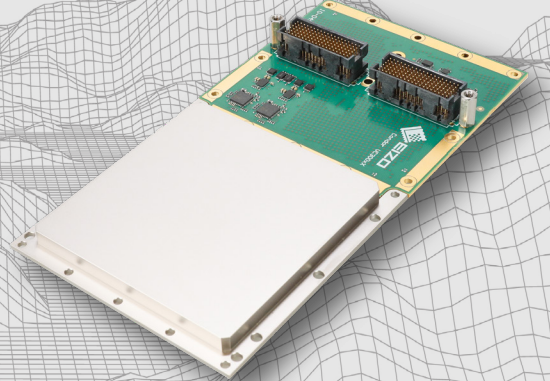


Rugged 12G-SDI XMC Video Capture Solution



VIDEO CAPTURE

12G, 3G, HD-SDI
Video Capture

LOW LATENCY

Capture to display
< 50 msec

HIGH-SPEED DATA TRANSFER

Supports PCI Express
Gen 3

XMC Video Capture Card Supporting up to Eight Video Inputs

The Condor VC300xX is an XMC form factor Ultra High Definition (UHD) video capture solution designed for high-performance video applications. It delivers raw video data to the host system over PCIe with exceptionally low latency, enabling real-time viewing, processing, analysis, or display on a local graphics card. Customer applications can easily access this data for seamless integration into workflows requiring advanced video processing or analysis.

The Condor VC300xX card supports up to eight SDI video capture inputs, supporting a mix of 12G, 3G, and HD-SDI resolutions, dependent on system bandwidth capabilities. Additionally, it includes two CVBS (NTSC/PAL) capture channels with audio support, expanding its versatility across varied video formats.

With power consumption less than 20W, the Condor VC300xX is ideally suited for SWaP-sensitive platforms like UAVs and other compact systems. This solution is available in air- and conduction-cooled ruggedized variants and can be integrated into VITA and SOSA-aligned systems. A comprehensive SDK is also provided, simplifying the management of captured video data. VITA 46.9 VPX I/O signal mapping supporting X12d, X8d, X16s.



MIL-STD 810
Shock



MIL-STD 810
Temperature



MIL-STD 810
Vibration



SWaP

Condor VC300xX Specifications

Interface

XMC 1.0, XMC 2.0. (XMC+ available)
x4 or x8 PCIe Gen 3

Audio Inputs

Two Stereo Audio

Video Inputs

Up to eight inputs supporting 12G, 3G, and HD-SDI formats
(100 Ohm Differential)
Two CVBS (NTSC/PAL) Inputs - 75 Ohm Single Ended

Capture Format

Raw video capture over PCIe

Software & Platform Support

Windows or Linux on x86 or ARM
VME, cPCI, VPX & PCIe (with adapter board)

Power Consumption

<20W

Operating Temperature (VITA 47.3)

CC4 (Conduction Cooled, -40C to 85C)
AC3 (Air-Cooled, -40C to 71C)

Shock (VITA 47.3)

40 g

Vibration (VITA 47.3)

Class V3 (0.10 g2/Hz)

Condor VC300xX Block Diagram

