



Condor VC 100x

H.264 Compatible Video Capture XMC with up to 4 Video Inputs

Condor VC 100x Features

- H.264/AVC baseline, main or high profile up to L4.1
- 4 x Composite Video inputs (NTSC/PAL/SECAM)
- 2 x SDI or HD-SDI
- XMC form factor
- 2 channels up to 1080p30 or 4 channels of TV (composite)
- Interlaced video support
- 2 Stereo audio inputs
- Data Streaming over TCP/IP (optional)
- Convection/Conduction cooled

Markets

- Military/Avionics/Industrial
- Embedded Systems
- UAV

Platforms

- Windows/Linux based Single Board Computers
- VME, ATCA, cPCI
- VxWorks, Integrity (optional)

The Condor VC 100x XMC product is a video capture and compression card that has been designed for use in various applications such as surveillance, image detection, video recording, unmanned vehicles (UAV) and other camera based video recording/analysis applications.

This XMC form factor video capture card supports up to 4 video inputs. Various input formats (NTSC/PAL/SECAM/HD/HD-SDI/3G-SDI) are selectable through an API. Depending upon product version, IO is handled either through front connector or through the rear Pn4 connector.

The Condor VC 100x XMC video capture card does H.264 encoding in hardware, minimizing CPU usage. Video data is captured and stored in files. This data is available to customer applications for processing, analysis or display on a local graphics card. The Condor VC 100x XMC configuration

also supports transfer of the video stream via UDP or TCP/IP for remote display of captured data. An API is provided to manage captured video data.

Condor VC 100x is available in various ruggedized levels and has conduction or convection cooled variants.

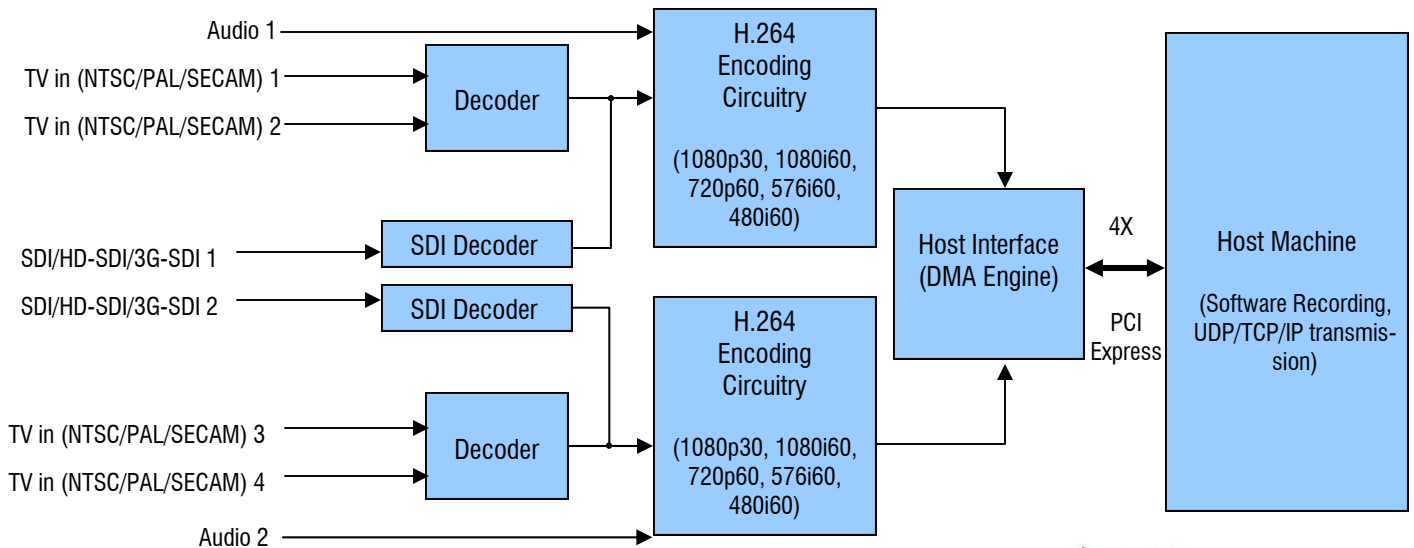
While Windows or Linux drivers are available by default, other real time operating systems (RTOS) such as VxWorks, Integrity and LynxOS may be optionally supported on both X86 and PowerPC platforms.

Tech Source has provided graphics solutions for over 23 years and always met customer needs. The products come with Tech Source's commitment of availability for up to 7 years. This, along with the excellent support from Tech Source's technical team.

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Condor VC 100x Technical Specifications

Interface	XMC form factor, 1 Lane PCI Express Interface
Capture format	H.264/AVC Baseline, Main or High Profile up to L4.1
Video Inputs	4 x Composite Video (NTSC/PAL/SECAM) (D-SUB 15 pin –front, PMC –rear), 75 Ω
	2 x (SDI, HD-SDI),SMB-front, PMC rear, Interfaces: SMPTE 292M(HD), SMPTE 259M-C(SD). 1 HD can be combined with 2 SD inputs, 75 Ω
Audio Inputs	2 x SDI audio inputs (SMPTE 272M-C and SMPTE 299M), 2 x Stereo line inputs, 20 kΩ
Resolutions	2 channels of up to 1080p30 or 1080i60 for HD, or 4 channels of 480i/576i for SD
Power Rating	Max 10.7 Watts
Operating Temperature	0°C to 55°C (Commercial)
	-20°C to 70°C (Semi-Rugged)
	-40°C to 85°C (Rugged/Conduction cooled)
Non-operating Temperature	-55°C to 125°C (Rugged/Conduction cooled)
Vibration (sine)	10 g peak (15-2K Hz) (Rugged/Conduction cooled)
Vibration (random)	0.1 g2/Hz (15-2K Hz) (Rugged/Conduction cooled)
Shock	40g peak
Conformal coating	Available
Humidity	90% without condensation, 100% (for rugged)
Dimensions and Weight	149mm x 74mm (convection, front IO), 143.75mm x 74mm (conduction); 5.1 oz
Software/Platform Support	Windows or Linux
	RTOS support—VxWorks & Integrity (Others as needed)
	X86 (now), PowerPC (future)



Condor VC 100x Block Diagram

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