

COMP2HDSDI

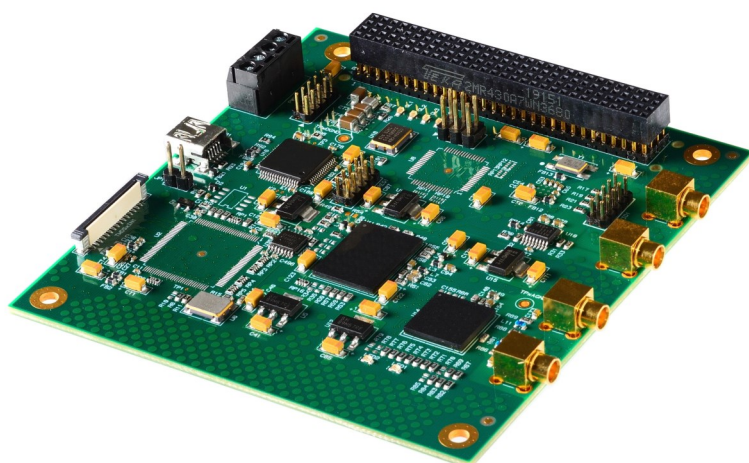
PAL/NTSC/RS-170 Composite to HD-SDI converter



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The COMP2HDSDI is an intelligent stand-alone scan converter that accepts a composite PAL/NTSC/RS-170 input, upscales and then displays over HD-SDI.



The COMP2HDSDI features high speed analog signal digitization, video scaling, frame rate conversion and a timing generator. This provides seamless and automatic conversion of interlaced composite signals to HD interlaced or progressive digital output.

The COMP2HDSDI is an intelligent stand-alone device with its own on-board MPU and does not require a host CPU or any driver software. For mechanical convenience, the module can be mounted on a PCI-104 stack without consuming host CPU resources.

Rev A.00

Subject to change without notification

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Convert
PAL/NTSC/RS-170
Composite
to
HD-SDI



PC/104

Embedded PC Modules

COMP2HDSDI

PAL/NTSC/RS-170 Composite to HD-SDI converter



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Applications

Aerospace instrumentation
Instrument panel
Multi-function display (MFD)
Situational Awareness
Remote Video Surveillance
Naval/Marine instrumentation
Border Security
Traffic Monitoring and Control
Video Acquisition and Analytics

Features

Converts PAL/NTSC/RS-170 Composite to HD-SDI
Single +5V power supply
Stand-alone operation
Operating system neutral
Standard PCI-104 mechanical form factor

On-board

MPU

for

Intelligent,

Stand-alone

Operation

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PC/104

Embedded PC Modules

Analog Video

Input Composite PAL/NTSC/RS-170 video input
Digital Line Lock technology for reliable locking to any video source
8 bit analog to digital converter

Analog Video Output

Composite PAL/NTSC video output
10bit digital to analog conversion

Digital Video Output

HD-SDI SMPTE-292
SDI SMPTE-259

Video Output Resolution

720x576 50Hz interlaced
720x480 60Hz interlaced
1280x720 25, 29.97, 30, 50, 59.94 or 60Hz progressive
1920x1080 50, 59.94 or 60Hz interlaced
1920x1080 23.98, 24, 25, 29.97 or 30Hz progressive

Power

Single +5V @ 520mA Max

Note: All information preliminary and subject to change.

Environmental

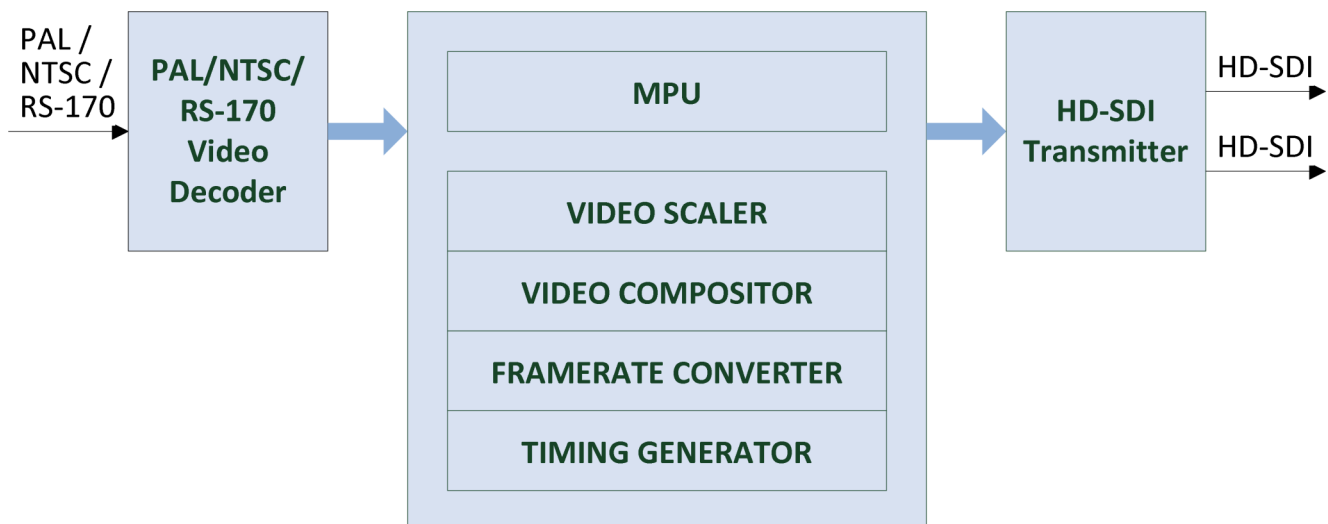
0°C to 60°C.
-40°C to +85°C (EXT option)

Ordering Information**COMP2HDSI**

Composite video to 2 HD-SDI scan converter (0 to 60°C)

COMP2HDSI-EXT

Composite video to 2 HD-SDI scan converter (-40 to 85°C)



COMP2HDSI Functional Diagram

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