

nanoSDI2PAL

HD-SDI to Composite PAL converter



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The nanoSDI2PAL is a HD-SDI to PAL composite video converter on a miniPCI-express form factor card. The nanoSDI2PAL automatically captures, scales and converts High Definition HD-SDI to PAL composite video. The compact form factor means the nanoSDI2PAL is ideal for video conversion in SWaP constrained systems.



The nanoSDI2PAL accepts SMPTE 292M compliant HD-SDI signals on a 75 Ohm MCX connector. The HD-SDI video input is captured, scaled and converted to analogue composite PAL video. A 75 Ohm analogue composite output provides a high quality PAL video output for driving composite video display or connection to analogue video recording systems.

The nanoSDI2PAL is an intelligent module that requires no user configuration and is completely operating system neutral. The nanoSDI2PAL is simply powered via the miniPCI-express connector.

Convert
HD-SDI
to
PAL analogue
composite video

Rev A.00

Subject to change without notification

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Applications

Aerospace instrumentation
Instrument panel clusters
Multi-function display (MFD)
Situational awareness
Naval/Marine instrumentation
Multi-camera Security Application
Border Security
Asset Monitoring
Traffic Monitoring and Control
Video Acquisition and Analytics

SMPTE 292M

compliant

SDI input

Intelligent,
stand-alone
operation

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Image for illustration purpose. Release product will differ.

SWaP optimised for
applications in the
Military,
Transportation,
Mining and
Energy Industries

Features

- HDSDI-to-PAL video conversion
- Capture / Scale / Convert HD-SDI video to Composite PAL
- SMPTE 292M HD-SDI input up to 1080p30
- 1x HD-SDI input - 75 Ohm MCX connector
- Composite PAL B/G/H/I analogue output
- Single +3.3V operation
- Extended operating temperature range (40°C to +85°C)
- Operating system neutral
- Very small footprint miniPCI-express form factor.

Video Input

SMPTE compliant SDI input.
 SMPTE 259M Standard definition (NTSC and PAL)
 SMPTE 292M High definition (up to 1080p30)
 SMPTE 424M 3G (up to 1080p60)
 75 Ohm MCX connector used for HD-SDI signalling.

Video output

Composite video output
 Supported output standards:
 CCIR-PAL
 PAL-B, PAL-G, PAL-H, PAL-I
 75 Ohm output impedance.

Power

Single +3.3V power operation (from miniPCle socket)

Miscellaneous

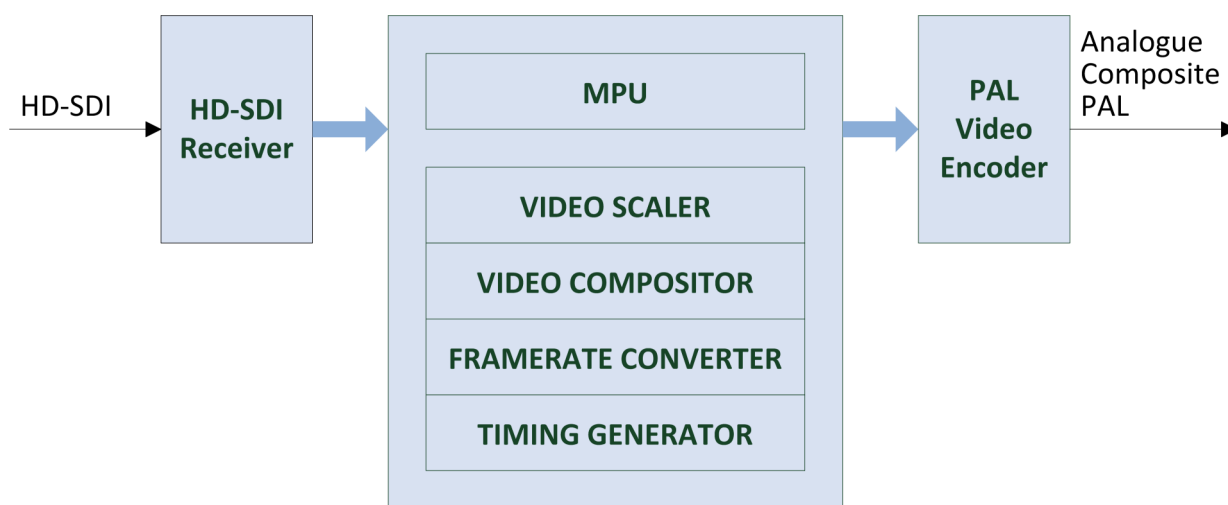
Intelligent module - no drivers required.
 Standard full height miniPCI-Express form factor
 Operating temp -40°C to +85°C

Ordering Information**nanoSDI2PAL-Ext**

HD-SDI to PAL converter (-40°C to +85°C)

CABLE-nanoSDI2PAL

Cableset for nanoSDI2PAL
 (1x MCX-to-BNC cable for SDI input, 1x Composite output cable)



nanoSDI2PAL Functional Diagram

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