

nanoGMSL2HDMI

GMSL to HDMI converter



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The nanoGMSL2HDMI is a Gigabit Multimedia Serial Link™ (GMSL) to HDMI converter on a miniPCI-express form factor card. The nanoGMSL2HDMI automatically converts GMSL to High Definition HDMI. The compact form factor means the nanoGMSL2HDMI is ideal for video conversion in SWaP constrained systems.



GMSL to
HDMI/DVI
Conversion

The nanoGMSL2HDMI accepts (GMSL) signalling on a shielded twister pair (STP) input. The GMSL is deserialized, converted and output as HDMI/DVI on a flat flex connector. Cable sets are available for the nanoGMSL2HDMI that provide panel mount standard DVI or HDMI connectors. The nanoGMSL is compatible with a range of GMSL serializers allowing easy conversion of GMSL cameras and video sources to standard HDMI/DVI compliant signalling.

The nanoGMSL2HDMI is an intelligent module that requires no user configuration. The nanoGMSL2HDMI is powered via the miniPCI-express connector, consuming less than 1W.

The nanoGMSL2HDMI is complemented by AMP's upcoming nanoHDMI2GMSL. The nanoHDMI2GMSL accepts a HDMI/DVI input and converts to GMSL. The combination of nanoHDMI2GMSL and nanoGMSL2HDMI allows HDMI signals to be sent reliably over up to 15m of STP cabling.

Rev A.00

Preliminary. Subject to change without notification

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Rugged SerDes

Deserializer

Applications

Vehicle situational awareness
Law Enforcement
Crime Scene Recording
Remote Video Surveillance
Multi-camera Security Application
Asset Monitoring
Traffic Monitoring and Control
Video Acquisition and Analytics

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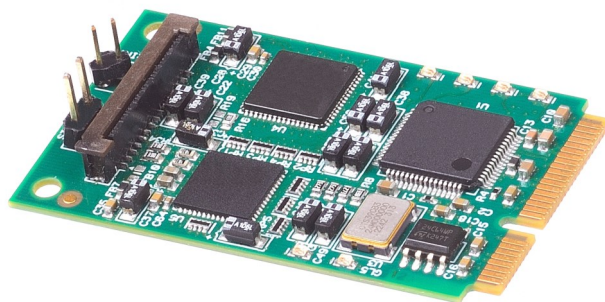
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nanoGMSL2HDMI

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

Features

GMSL-to-HDMI conversion

GMSL Shielded Twisted Pair (STP) Input

HDMI/DVI Output up to 1080p30

Low power operation (3.3V @ <0.3A)

Single +3.3V operation

Very small footprint miniPCI-express form factor.

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Video Input

GMSL input
100ohm Shielded Twisted Pair (STP)
Supports STP cable up to 15m

Video output

DVI Compliant HDMI output

Support Video Modes

Wide range of standard video modes supported, including:
720p60 / 720p50
1080p30 / 1080p25 / 1080p24
1080i60 / 1080i50
640x480
800x600
1024x768

Power

Single +3.3V power operation
Low power - 3.3V @ <0.3A

Miscellaneous

Standard full height miniPCI-Express form factor
Operating temp -40°C to +85°C

Ordering Information**nanoGMSL2HDMI-Ext**

GMSL to HDMI converter (-40°C to +85°C)

CABLE-nanoGMSL2HDMI

Cableset for nanoGMSL2HDMI

(1x GMSL STP input cable assembly, 1x DVI output cable assembly)

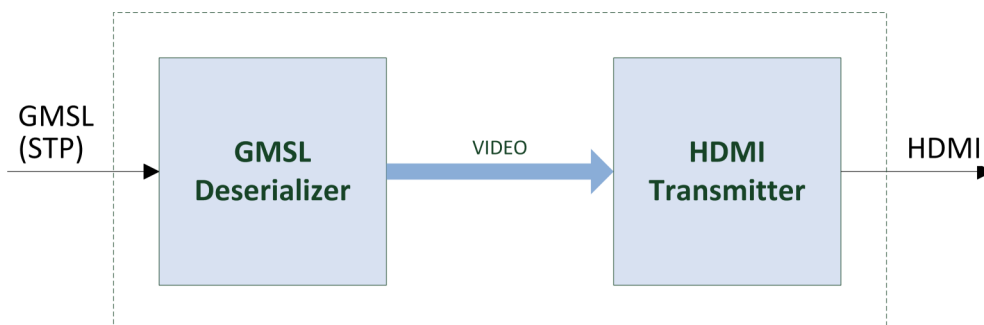
CABLE-nanoGMSL2DHMI-PNL

Cableset for nanoGMSL2HDMI

(1x GMSL STP input cable assembly 1x HDMI panel mount connector output cable assembly)

Related Products**nanoHDMI2GMSL-EXT**

HDMI to GMSL converter (-40°C to +85°C)



nanoGMSL2HDMI Functional Diagram

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