

DVI2GMSL

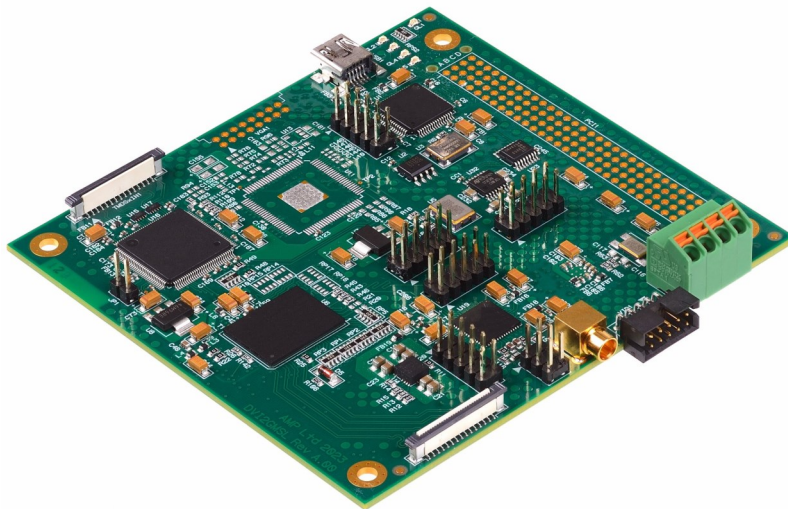
HDMI/DVI to GMSL stand-alone converter



**Advanced Micro
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The DVI2GMSL is an intelligent stand-alone scan converter that accepts DVI or HDMI input, optionally scales and then displays over Gigabit Multimedia Serial Link™ (GMSL).



The DVI2GMSL captures HDMI/DVI digital video and serialises it for output over a 3.12Gbps GMSL Coax link. The DVI2GMSL provides automatic vertical and horizontal up-scaling and down-scaling of the input video. This allows flexible conversion between input and output resolutions as required by the application. The DVI2GMSL is compatible with a range of GMSL deserializers allowing easy conversion of HDMI/DVI sources to GMSL coax.

The DVI2GMSL 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.

The DVI2GMSL is complemented by AMP's nanoGMSL2HDMI module. The combination of DVI2GMSL and nanoGMSL2HDMI allows HDMI signals to be sent reliably over 15m of Coax cabling.

***Rev A.00 - Preliminary**
Subject to change without notification

Convert

DVI / HDMI

to

GMSL

Rugged SerDes

Serializer

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PC/104

Embedded PC Modules

DVI2GMSL

HDMI/DVI to GMSL stand-alone converter



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Applications

Vehicle instrumentation
Instrument panel
Multi-function display (MFD)
Situational Awareness
Remote Video Surveillance
Video Acquisition and Analytics

Features

1x DVI/HDMI input
GMSL Coax output at up to 1920x1080
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

Digital Video Input

Standard progressive scan DVI input
Resolutions up to 1080p60
Automatic detection of input resolution

Video Output

3.12Gbps Gigabit Multimedia Serial Link
6.25MHz to 104MHz Pixel clock
9.6kbps to 1Mbps control channel (I2C/UART)
Support coaxial cable up to 15m

Power

Single +5V

Environmental

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

Mechanical

Standard 3.6" by 3.8" PCI-104 stackable card form factor

Ordering Information**DVI2GMSL**

HDMI/DVI to GMSL converter (0 to 60°C)

DVI2GMSL-EXT

HDMI/DVI to GMSL converter (-40 to 85°C)

CABLE-DVI2GMSL

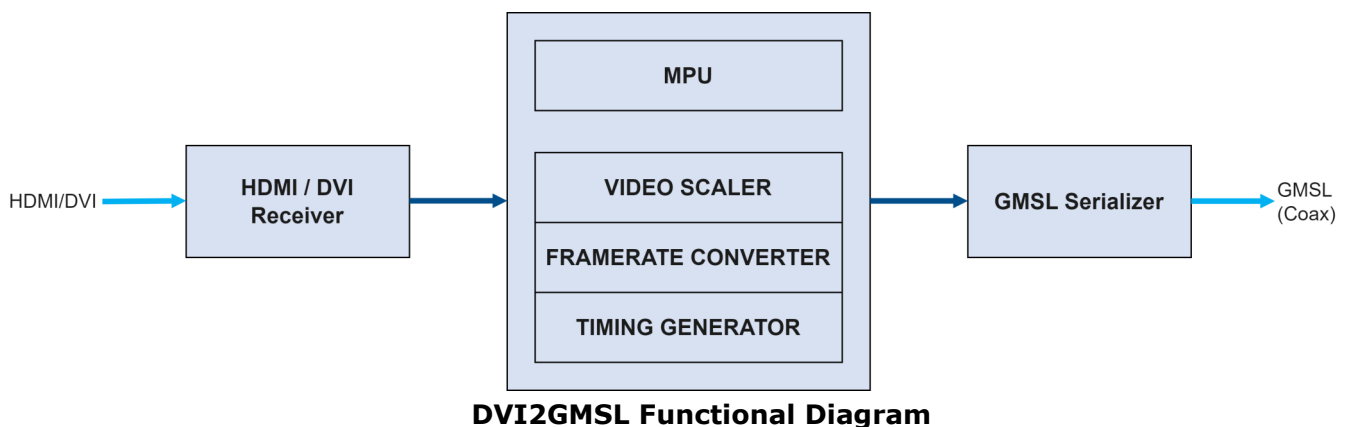
DVI2GMSL cable set with DVI input

CABLE-DVI2GMSL-HDMI-PNL

DVI2GMSL cable set with HDMI input

Related Products**nanoGMSL2HDMI-EXT**

GMSL to HDMI converter (-40 to 85°C)

**CABLE-DVI2GMSL****CABLE-DVI2GMSL-HDMI-PNL**

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