nanoDP2VGA

DisplayPort to VGA scan converter

The nanoDP2VGA is a DisplayPort to VGA converter on a compact miniPCI-express form factor card. The nanoDP2VGA accepts a DisplayPort input and outputs analog VGA signals at up to 1920x1200 (WUXGA) resolution.

The nanoDP2VGA receives the DisplayPort digital signal and automatically converts it for display on a progressive analog VGA output. The video resolution and framerate are preserved across the conversion. A cable set is available for the nanoDP2VGA that provides panel mount DisplayPort and VGA connectors.

The nanoDP2VGA is an intelligent stand-alone device and does not require a host CPU or any driver software. For mechanical convenience the module is powered via the miniPCI-express connector.

Convert DisplayPort to Standard Analog VGA

Rev A.00
Subject to change without notification

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PC/104
Embedded PC Modules

nanoDP2VGA

DisplayPort to VGA scan converter

Supports

resolutions from

VGA to WUXGA

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

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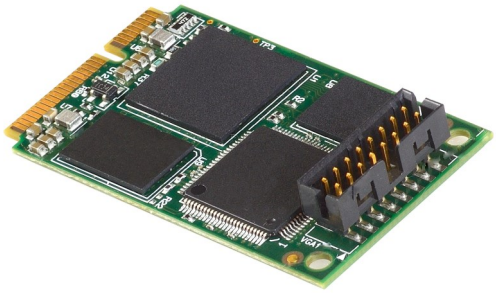

Image for illustrative purposes only
Please refer to product description

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

Features

Converts DisplayPort to standard analog VGA

DisplayPort 1.1a compliant input

VESA compatible analog VGA output

Supports resolutions up to 1920x1200 (WUXGA)

Single +3.3V power supply

Stand-alone operation

Operating system neutral

Very small footprint miniPCI-express form factor

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PC/104
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Technical Specification

Digital Video Input

VESA compliant DisplayPort v1.1a
1-lane and 2-lane modes supported
1 MHz AUX channel

Analog Video Output

Progressive scan RGB, H-Sync, V-Sync (Analog VGA)
Pixel clock up to 240Mhz
Triple 8bit digital-to-analog conversion
DDC

Supported Resolutions

Display resolutions between VGA and WUXGA, including:

- SVGA 800x600
- XGA 1024x768
- HD 1280x720
- SXGA 1280x1024
- UXGA 1600x1200
- WUXGA 1920x1200

Power

Single +3.3V power operation

Miscellaneous

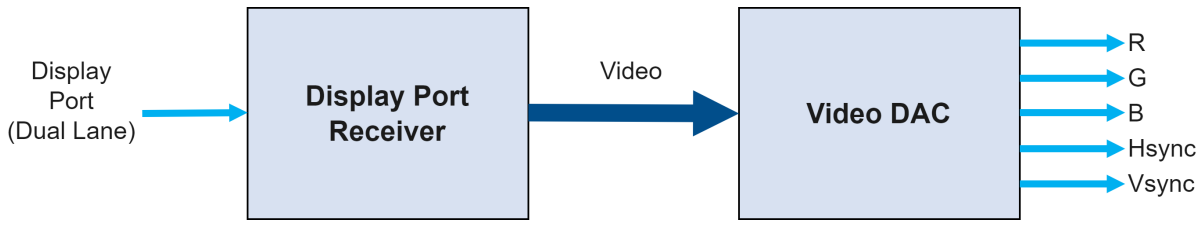
Standard full height miniPCI-Express form factor
Operating temp 0˚C to 60˚C
Operating temp –40˚C to +85˚C (extended temp option)

Ordering Information

nanoDP2VGA
DisplayPort to VGA scan converter (0 to 60˚C)

nanoDP2VGA-EXT
DisplayPort to VGA scan converter (-40˚C to +85˚C)

Cable-nanoDP2VGA
Cable set for nanoDP2VGA
(1x DisplayPort FlatFlex input cable, 1x VGA output cable)



nanoDP2VGA Functional Diagram

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