Adapt Series

Rugged DisplayPort to DVI / VGA video converter designed for MIL-STD-810

VIDEO CONVERTER

Stand-alone video converter

DESIGNED FOR DEPLOYMENT

SWaP optimized and low power

BUILT TO WITHSTAND

Ruggedized for Military Level Shock and Vibration (MIL-STD-810)

Rugged DisplayPort to DVI/ VGA Video Converter

The Adapt Series products are a family of video format converters that convert DisplayPort into traditional video formats such as DVI or VGA. This rugged product meets military level shock and vibration (MIL-STD-810) requirements and can operate in extended temperature environments (-40°C to 85°C). Power to these active devices is available on the DisplayPort cable, no external power is required.

Customers often need to support several legacy monitors with various input formats. Support of such monitors may require special graphics/video boards, incurring NRE, long lead-times, etc. Alleviating the need for board re-designs, the Adapt video format converters enable the use of the newer off-the-shelf rugged graphics cards with DisplayPort outputs to support DVI or VGA.

The Adapt video format converters are designed to work with all EIZO Rugged Solutions' Condor graphics cards. For example, the Condor 4000xX-6DP XMC graphics card has six DisplayPort outputs available on rear XMC I/O. These outputs can be "adapted" to provide any combination of six video outputs – DVI or VGA, as desired for the specific application. Another example is the Condor 4000xF, which outputs a DisplayPort output on the front panel that can be easily converted with an Adapt to support DVI or VGA. The Adapt products can also be customized to support other connector types, such as male or female gender or circular connectors such as MIL-DTL-38999.

MIL-STD 810 Shock

MIL-STD 810 Temperature

MIL-STD 810 Vibration

SWaP

PHONE: (407) 262-7100 MAIL: RUGGED@EIZO.COM WEB: WWW.EIZORUGGED.COM

Adapt Specifications

Video Outputs
Single-Link DVI or VGA
(Supports standard VESA resolutions from 640x350 to 1920x1200@60)

Video Inputs
DisplayPort (DP_PWR pin 20 required)

Operating Temperature
-40°C to 85°C

Shock (MIL-STD-810)
40 g (rugged version only)

Power Inputs
DisplayPort cable provides power.
Requires GPU and cable to support pin 20 (DP_PWR, 3.3V, 500ma)

Mating Connector Gender
Male or Female

Vibration (MIL-STD-810)
0.1 g2/Hz (rugged version only)

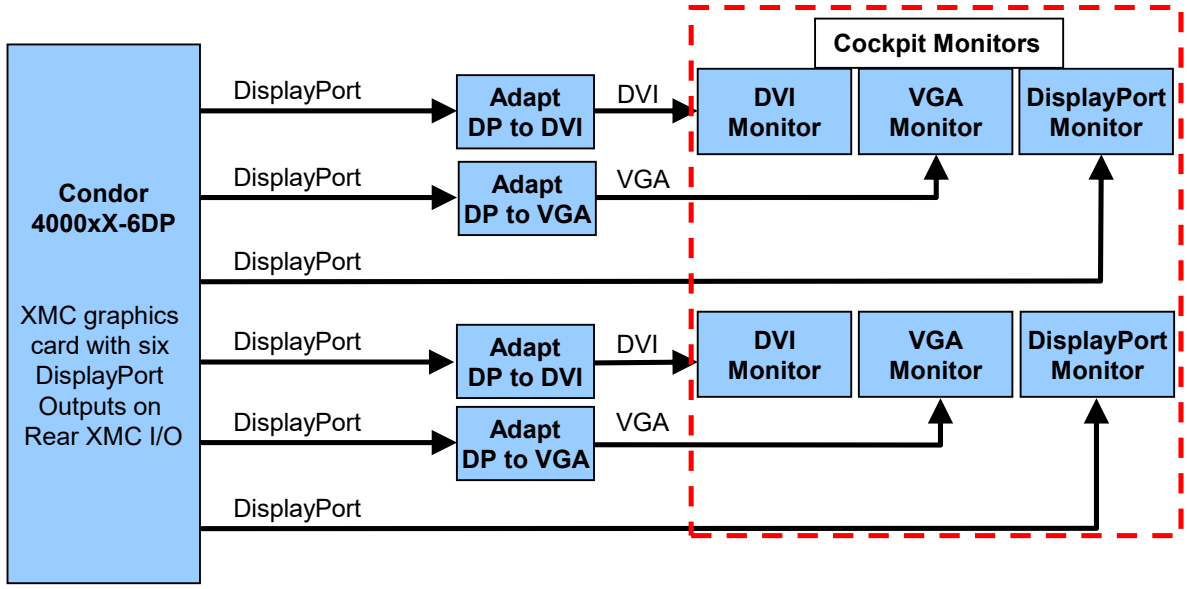
Humidity (MIL-STD-810)
95% Without Condensation (rugged version only)

Adapt Product List

	Product Name			
	Adapt DVI (Male) (DisplayPort to DVI Industrial Grade)	**Adapt VGA (Male)** (DisplayPort to VGA Industrial Grade)	**Adapt VGA (Female)** (DisplayPort to VGA Industrial Grade)	**Adapt-R VGA** (DisplayPort to VGA Rugged Grade)
Video Input Format	DisplayPort	DisplayPort	DisplayPort	DisplayPort
Video Input Connector	Standard DisplayPort (Female Socket)	Standard DisplayPort (Female Socket)	Standard DisplayPort (Female Socket)	MIL Circular D38999/26ZB35PN
Video Output Format	Single-Link DVI	VGA	VGA	VGA
Video Output Connector	Standard Single-Link DVI (Male Plug)	Standard VGA (Male Plug)	Standard VGA (Female Socket)	MIL Circular D38999/20ZC35SN
Extended Temp (-40°C to 85°C)	Yes	Yes	Yes	Yes
MIL-STD-810 Shock	No	No	No	Yes
MIL-STD-810 Vibration	No	No	No	Yes

Adapt Use Case

The example below demonstrates the Adapt in a typical application with the Condor 4000xX-6DP. Multiple Adapt video format converters are used to convert the native DisplayPort outputs on the Condor 4000xX-6DP to a mix of DVI, VGA, and DisplayPort outputs going to six different monitors.



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