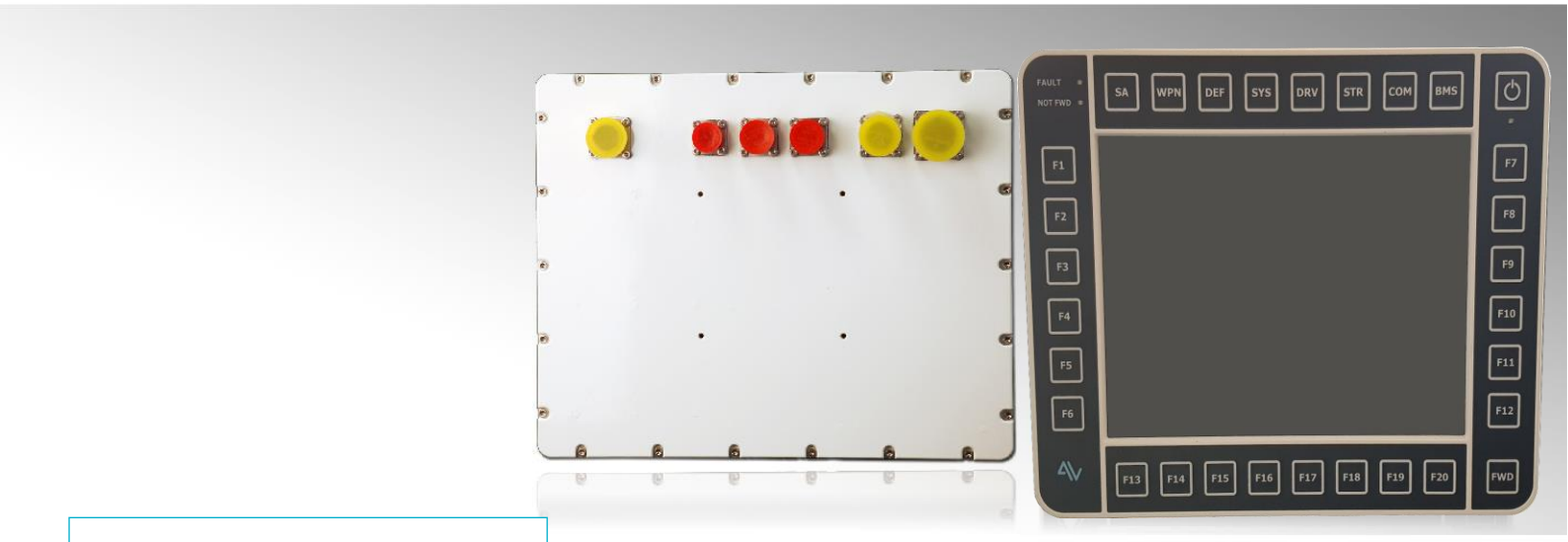
VDS1040

GVA Style Ruggedised Flat Panel Display



- **10.4” TFT LCD LED Backlight**
- **Resolution XGA (1024x768)**
- **i5 built-in CPU**
- **Def Stan 00-82 Vetronics Infrastructure for Video Over Ethernet (VIVOE)**
- **Available with GigE Vision capability**
- **Generic Vehicle Architecture (GVA) compatible**
- **Two PAL or NTSC analogue inputs**
- **Picture in Picture, Matrix and video scaling**
- **1000baseT Ethernet**
- **Customisable Overlay**
- **Programmable Edge Keys**
- **Touch Screen**

The VDS1040 is a rugged display fully compatible to generic vehicle architecture requirements. It features a display with a native display resolution of 1024 x 768.

The display has an integrated resistive touch panel and has GVA Human Machine Interface layout which conforms to Def Stan 00-25. Twenty programmable function keys are available which can be fully customised.

The VDS1040 is unique in a way that not only can it receive up to 4 full PAL or NTSC digital streams via its 1000baseT Ethernet port it can also encode and transmit the two attached analogue video inputs into a digital Def Stan 00-82 stream to be received by other displays or a central recording system. Tile and display up to 6 video inputs with reduced resolution.

Video input streams both digital and analogue can be scaled and presented in either a matrix or picture in picture format.

The display enclosure is manufactured out of a solid piece of milled aluminium to withstand the most demanding environments across a wide range of operational conditions.

Built-In i5 processor options have image streams and analogue camera input mixed with the i5 using a hardware Engine for seamless overlay of graphics over the images.

Optically isolated IO’s allow monitoring and control of external systems.

Advanced Vision Technology Ltd | www.avtechuk.com
Thames House, Mere Park, Marlow. SL7 1PB
Telephone. (+44) 1628 473749 Email. sales@avtechuk.com

VDS1040

GVA Style Ruggedised Flat Panel Display

Technical Specifications

Display		
	Panel Size	10.4” diagonal
	Resolution	XGA (1024 x 768 pixels)
	Brightness	500cd/m^2 (max)
	Contrast Ratio	1200:1
	Response	25ms (Typical, Rising + Falling)
	Viewing Angle	Horizontal and Vertical ± 88° with CR > 10
	Colours	16.7M colours, 262K
	Backlight Technology	LED
Touchscreen		
	Technology	Resistive
	Control	USB/RS232
Video Inputs		
	Analogue	2 PAL or NTSC
	Digital	Up to 4 (4 Full PAL or NTSC format)
		1 x DVI Input
Video Outputs		
	Digital	2 Encoded DefStan 00-82 streams
Bezel Keys		
		20 function keys
		GVA Dedicated keys (Def Stan 00-25)
		Up/Down (Dimmable LCD Backlight Operation)
		Power Button
		FWD camera
		Dimmable membrane backlight (Optional)
Optional Inputs / Outputs		
	Communications	USB, RS232, Gigabit Ethernet
	General Purpose	2 Optical isolated inputs + 2 Optical isolated outputs
Connectors		Amphenol Rugged MIL Standard Connectors (MIL-DTL 38999/3)
Mechanical		
	Weight (Approx.)	6Kg
	Dimensions	309mm(W) x 270mm(H) x 66.8mm(D)
Environmental		
	Humidity	90% @ +40°C noncondensing
	Ingress Protection	IP65
	Temperature	Operating Temperature: -20°C to +50°C
		Storage Temperature: -30°C to +80°C
		Cooling: No Moving Parts. Passive
		Optional Extended Temperature Range (-46°C to +70°C)
Power		
		Input Power Voltage: 16-40V (28V Typical)
		Isolated DC/DC Converter (MIL-STD-1275 & MIL-STD-704)
		EMI & Transient Filter (DefStan 61-5)