

VTC

VICTORY THIN CLIENT MULTIFUNCTION DISPLAY

The VTC Gigabit Ethernet Display is the next generation ruggedized solution for modern tactical vehicle systems. Supporting an open architecture system level approach of the VICTORY initiative, the VTC is a centralized interface for all Vetronic components. This DVR-capable display with removable 256GB SSD, features Touch Screen and Programmable Bezel Keys to ensure the connected C4ISR subsystems network is accessible at all times. Whether viewing situational awareness over Ethernet (GigE Vision, GenICam, etc.), vehicle diagnostics, or other inputs supported on the digital backbone, the VTC delivers exceptional optical performance in extreme MIL-Spec environments. Advancing SWaP, interchangeability, and user interface, the VTC is the answer to video over Ethernet on a Victory-compliant backbone.



* Cables not included

STANDARD FEATURES

- 10/100/1G Ethernet (GigE Vision)
- User Programmable Bezel Keys (20)
 - Internal and/ or External Use
 - RS-232/RS-422 or GenIcam™
- RS-170 Input (4), NTSC/PAL; HDMI Input (1)
- USB 2.0 (1) and USB 2.0 (1) OTG Ports
- mPCIe Expansion Slots (2)
- CANBus
- Removable 256GB SSD (up to 1 TB available)
- DVR Capable (*Interface Application Required*)
- WXGA Resolution, 9.0" TFT AMLCD
- LED Backlight (3000:1 Dimming Ratio)
- Anti-Reflective and Anti-Glare Treatments
- Enhanced Sunlight Readability
- IP67/NEMA 6 Enclosure (Sealed Connectors*)

OPTIONAL FEATURES

- Resistive Touch Screen, Single Point or Multi-Touch Interfaces (USB or RS-232 Interface)
- Night Vision Compatible
- NVIS MIL-STD-3009 Class B White Compliant
- Headphone Jack

MOUNT OPTIONS

- Panel
- RAM
- VESA (75mm)

PROCESSOR FEATURES

- i.MX6 Quad-Core ARM® Cortex® A9 1GHZ Processor
- 2GB, 64-bit wide DDR @1066MT/s
- Multi-Stream capable HD Video Engine (1080p60 Decode, 1080p30 Encode, and 3-D Video Playback in HD)
- 3-D Graphics with Quad Shades up to 200 Mt/s
- Separate 2-D and/or Vertex Acceleration Engines for Optimal User Interface
- Real Time Clock
- Embedded Linux

ALTERNATE PROCESSORS

- Intel® Atom™ Quad Core x5-E8000 (4 x 1.04GHz)
- Intel® Celeron® Dual Core N3060 (2 x 1.6GHz)



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FEATURES

Memory, Up to 8GB DDR3L, 1600 MT/s

Removable 256GB SSD (up to 1 TB available)

HD Graphics

Microsoft Windows® Operating System

EXPANSION SLOT OPTIONS

ARINC 429

CANBus

Dual Redundant 1553

GPS

HD-SDI Frame Grabber

HDMI Video Input

WIFI

LCD SIZE	RESOLUTION	BRIGHTNESS	VIEWING ANGLE	CONTRAST RATIO	MAXIMUM POWER CONSUMPTION
9.0" TFT AMLCD	WXGA (1280 x 768)	800 nits	170° (H) x 170° (V)	1000:1	35 Watts
TECHNICAL SPECIFICATIONS					
Display	8-bit color, 16,777,216 colors. TFT AMLCD (Thin-Film Transistor Active-Matrix Liquid-Crystal Display)				
Dimming Ratio	3000:1				
System I/O	Ethernet (GigE Vision), RS-170 (4), HDMI Input (1), USB 2.0 (1), USB 2.0 (1) OTG				
Housing	Milled Aluminum, Black Hard Anodized				
Mount Options	Panel, RAM, or VESA (75mm). Quoted individually.				
Wide Range DC Power Input†	18-36 VDC (24, 28 VDC nominal) Per MIL-STD-1275				
Power Conditioning	Protected against Internal Short Circuit, Load Dump, Over Voltage and Reverse Polarity				
ENVIRONMENTAL SPECIFICATIONS					
IP Rating	IP67 (NEMA 6 Submersible)				
Operating Temperature	-40°C to 71°C (-40°F to 160°F); Touch Option: -20°C (-4°F)				
Storage Temperature	-51°C to 71°C (-60°F to 160°F)				
Humidity	0-100%				
Altitude	45,000 ft.				
MILITARY SPECIFICATIONS					
MIL-STD-461	EMI				
MIL-STD-810	Multiple Methods and Procedures in a variety of applications; data available upon request				
MIL-STD-704	Operational voltage is 20 - 31.5 VDC (Input is 28 VDC nominal)				
MIL-STD-1275	Vehicle Power Requirements				
MIL-STD-3009	NVIS Compatible (Optional)				
MIL-A-8625	Standard Finish, Type III, Class 1 & 2				

* - Cables not included.

† - Power range specified covers momentary environmental fluctuations generally found in a mobile environment while display is operating. For power initialization and continual operation, nominal voltages are required.

ON-GOING PRODUCT DEVELOPMENT MAY NECESSITATE DESIGN AND SPECIFICATION CHANGES WITHOUT NOTICE.

