VTC

VICTORY THIN CLIENT MULTIFUNCTION DISPLAY

The VTC Gigabit Ethernet Displays are 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.

STANDARD FEATURES

- 10/100/1G Ethernet (GigE Vision)
- User Programmable Bezel Keys (20)
  - Internal and/ or External Use
  - RS232/RS422 or GenIcam™
- Composite Video Inputs (4), Auto Sensing NTSC, PAL
- Up to 1080p30 High Definition Video
- 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)*
- 10.1", 13.3", 15.6", 17.3" and 24" 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 RS232)
- Night Vision Compatible
- NVIS MIL-STD-3009 Class B White Compliant
- Headphone Jack

MOUNT OPTIONS

- Panel
- RAM
- VESA (75mm)

* Cables not included

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)

LCD SIZE	RESOLUTION	LUMINANCE	VIEWING ANGLE	CONTRAST RATIO	MAXIMUM POWER CONSUMPTION
10.1" TFT AMLCD	1920x1200	800 nits	170° (H) x 170° (V)	800:1	35 Watts
13.3" TFT AMLCD	1920x1080	400 nits	178° (H) x 178° (V)	800:1	35 Watts
15.6" TFT AMLCD	1920x1080	400 nits	178° (H) x 178° (V)	1000:1	35 Watts
17.3" TFT AMLCD	1920x1080	400 nits	160° (H) x 140° (V)	600:1	40 Watts
24" TFT AMLCD	1920x1200	900 nits	178° (H) x 178° (V)	1000:1	75 Watts

TECHNICAL SPECIFICATIONS	
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
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), Composite Video (4), Auto Sensing NTSC and PAL-BGHID; HDMI Input (1), USB 2.0 (1), USB 2.0 (1) OTG
Processor Options	Intel® Atom™ Quad Core x5-E8000 (4 x 1.04GHz), Intel® Celeron® Dual Core N3060 (2 x 1.6GHz)
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.

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