



VCDU: 8.4" VEHICLE CONTROL & DISPLAY UNIT



SPECIFICATIONS :

Display Features

- » Display Size : 8.4" XGA LCD Display
- » Display Resolution : 1024x768
- » No of Colors : 16.7 Million
- » Viewing Area : 170.496mm(H)x127.872mm(V)
- » Pixel Pitch : 0.1665mm(H) x 0.1665mm(V)
- » Pixel Arrangement : RGB Vertical stripe
- » Viewing Angle : Left/Right 850,Top 850,Down 850
- » Contrast Ratio : 400:1
- » Response Time : 22 ms
- » High Brightness for Sun readability
- » Wide dimming ratio for day and night operation
- » Compliant with NVIS goggles
- » NVIS Compliant as per MIL-STD-3009 Class B Compliant
- » Day mode surface luminance of Max 686 cd/m2 and Min 0.314 cd/m2
- » Night mode or NVIS luminance of Max : 3.43 cd/m2
- » Switch selection between Day mode for use in day conditions and Night mode (NVIS Compatible)
- » 5 Wire Resistive Touch Screen optically bonded to Anti glare , Anti Reflective Micromesh Filter for EMI Compliance

Processor :

- » Built in Multifunction Mother Board with Intel 22nm quad-core Celeron Processor @ 1.6 Ghz or above

Inputs :

- » 4x Analog Input Channels: CCIR Standard Video
- » 1x DVI Input (Optional)
- » 1x Audio Input
- » 4 Digital Inputs

Outputs :

- » 1x Video Output
- » 1x Audio Output
- » 4 Digital Outputs

Communication Interfaces

- » 2x CAN Bus 2.0B (J1939)
- » 2x Gbe Ethernet
- » 3x RS 232/1 x RS422/485
- » 5x USB 2.0 ports
- » 1x 12 channel GPS interface with external antenna port

- » Programmable Function Keys: 16 Keys + Brightness Control Keys + On/Off key, Day/Night mode for the display
- » Graphics interface supports DX 11.1, OpenGL 4.2, Open CL 1.2 to support advanced graphics options like Cropping, Tiling, Scaling & alpha blending functions
- » Military 38999 connectors for Video input, Ethernet, GPIO, CAN , RS232/422 channels
- » Input Voltage: 18~32V DC (nominal 24V) with MIL 1275D protection for vehicle applications
- » Operating System : WES 7 (Windows embedded standard 7) or Windows 7 professional
- » Power Consumption : 60W Approximately
- » Dimension : 250mm (W)x 200mm(H) x 65mm(D)
- » Weight : Around 6 kgs

- » Environmental (As per MIL-STD-810F/JSS 55555:2000 , Revision 2 – Class L2H)

- Operating Temperature (High) : +55°C
- Operating Temperature (Low) : -20°C
- Storage Temperature (High) : +70°C
- Storage Temperature (Low) : -30°C
- Humidity : 95% RH non-condensing @ 40°C
- Vibration : Class L2H : 5 ~8 Hz: Constant displacement ± 6mm
8 ~500 Hz: 15 m/sec2 constant acceleration
- Shock : 20G , 11msec Half sine pulse (Test No 24 - truck mounted equipment)
- Protection : IP 65 on display front side.
- Altitude : 15,000 feet (Test No 3)
- EMI/EMC : As per MIL-461F (Applicable for Equipment installed in Ground , Army Platform Equipment)