RT10XG

Rugged Portable 10.4" Panel

The RT10XG is a highly rugged 10in portable panel PC designed for military aviation, navy and army vehicles. Rugged to survive severe environments, it will not be affected by heat, sand, dust, water spillage or shock. Designed around a 10.4" XGA LCD, this fanless sealed portable panel will address all field applications.

KEY POINTS

- Rugged durable packaging MIL standard compliant
- Touch sensor (armored resistive)
- Field removable battery with indicator
- Configurable to address various I/O requirements
- Recessed sealed MIL type connectors
- Upgradeable through mini PCIe slots

The RT10XG rugged portable panel is proposed with various configurations of Man Machine Interfaces. Lateral function keys and custom marking are proposed as an option, as well as high bright or NVIS to MIL STD 3009.

OPTIONS

- NVIS LCD and function keys
- Mating cables
- Custom COM ports
- Vehicle cradle mount
- Pinout allocation
- Frame grabber, GPS
- Digital I/O, Serial lines

CONFIGURATIONS

Power supply: 8-16 VDC, 18-36 VDC, 12-36VDC

Interfaces: USB, Eth, Discrete, Serial, 1553, CAN

LCD: High bright, dimming to zero, NVIS

CPU: Dual / quad core Atom, ARM , 2-8 GB DDRAM

OS: Windows, Linux

Storage: SSD, SD, CF

Environment: EMI to MIL STD 461, Extended temperature, shock and vibration to MIL STD 810, IP ratings up to IP65,

Consult MILCOTS to establish a specific configuration

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RT10XG Rugged Portable Panel

The RT10XG rugged portable panel is designed around building blocks and can be proposed in a variety of configurations. The configuration below is an example of the suggested solutions:

TECHNICAL SPECIFICATIONS	
CPU / Storage	Atom E3815, 4 GB DDRAM 128 GB SSD
Display	10.4" TFT Active Matrix Panel, LED backlight,
Max Resolution	1024x768 (XGA) 16M Colors
Luminance	500 Cd/m2 (day mode)
Touch Panel	5 wire resistive armored touch sensor
MMI	Set of user's function keys: ON/OFF, dimming, preset
Connectors	Sealed conpact push -pull HD
Dimensions	10.47" (W) x 8.78" (H) x 2.63" (T) 266mm (W) x 223mm (H) x 67mm (T)
Weight	6.0 lbs (2.7 kg)
Power / battery	[18-36 VDC] - 2.0 h run time (typical)
O/S	Windows / Linux
I/O - COM	USB (x1) Gig Ethernet (x1) RS485 (x1) 1553 bus 1 1553 bus 2

ENVIRONMENTAL PERFORMANCE	
Operating Temp.	0 °C to 50 °C
Storage Temp.	-30 °C to +75 °C
Humidity	95 % @ 40 deg C
Altitude	0 to 45000 feet
Shock	40g / 15 ms , half sine MIL S 901D
Vibration	operating vibration 3G RMS 5 to 2000 Hz
Ingress Protection	IP65 (front bezel)
EMC	MIL-STD-1275B, MIL-STD-461

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