

# RP20UX

Rugged 20" Panel PC

The RP20UX is a highly rugged 20" panel PC designed for Navy, aviation and army vehicles. Rugged to survive severe environments, it will not be affected by heat, sand, dust, water spillage or shock. Designed around a 20.1" LCD and an Intel mobile CPU of the latest generations, this panel mount rugged unit will address all field applications.

## KEY POINTS

- Rugged durable packaging MIL standard compliant
- Touch input sensor
- Waterproof front bezel function keys
- Low power dual or quad core INTEL® fanless CPU
- Flexible configuration of I/Os
- 0-100% dimmable backlight

## OPTIONS

- Mating cables
- High bright / NVIS
- Vehicle mount
- Heaters for cold start
- Connectors location and type
- Pinout allocation
- Lateral function keys
- Removable storage media



The RP20UX rugged panel is proposed with various configurations of I/Os and user's interfaces. Ideally designed for console applications, the modular design of the RP20UX is flexible enough to adjust to custom layouts and conditions.

## CONFIGURATIONS

**Power supply:** 8-16 VDC, 18-36 VDC, 12-36VDC, 115-230VAC

**Touch:** Resistive, IR

**LCD:** high bright, dimming to zero

**Communications:** LAN, serial, USB, discrete, 1553, CAN

**CPU:** E3845 quad core, i7 dual core 5th or 6th gen

**OS:** Windows, Linux

**Environment:** EMI to MIL STD 461, Temperature and humidity to MIL STD 810, IP ratings up to IP67, shock and vibration to MIL STD 810, MIL STD 167, MIL S 901D

**Consult MILCOTS to review your application**



# RP20UX Rugged Panel PC

The RP20UX 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

Display	20.1" TFT Active Matrix Panel, LED backlight
Max Resolution	1600x1200 (UXGA) 16M Colors
Luminance	260 Cd/m <sup>2</sup> / enhanced TFT
Touch Panel	5 wire resistive armored sensor
CPU	E3845 quad core / I7 dual core
RAM	8GB RAM (up to 12 GB)
Storage	256 GB SSD (upgradeable)
Operating system	Windows 7, Linux
I/O (on MIL 38999 connectors)	USB (2 ports) Serial (2 ports) Ethernet (2 ports) Power (1 port)
Dimensions (mm) ( in )	482.6 (W) x 399.3 (H) x 88.4 (D) 19.00 (W) x 15.72 (H) x 3.48 (D)
Weight	8.2 kg (18.1 lbs)
Power	AC [100V-240V - 50/60 Hz] or DC [18-36 V] or DC [9-18 V]

## ENVIRONMENTAL PERFORMANCE

Operating Temp.	-40 °C to 60 °C (CPU dependent)
Storage Temp.	-40 °C to +75 °C
Humidity	95 % @ 40 deg C
Altitude	0 to 45000 feet
Shock	30g 15 msec, MIL S 901D
Vibration	operating vibration 3G RMS random 5to 2000 Hz, MIL STD 167
Ingress Protection	IP65
EMC / EMI	MIL-STD-461
Applicable Standards	MIL-STD-810, MIL-STD-167, MIL S 901D RTCA-D0-160, MIL-STD-461



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