# RP24WU

## Rugged 24" Panel PC



The RP24WU is a highly rugged 24" 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 24" LCD and an Intel mobile CPU of the latest generations, this unit can be proposed with a panel mount flange interface or as a stand alone VESA or edge mount solution.

## 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

The RP24WU rugged panel is proposed with various configurations of I/Os and user's interfaces. Ideally designed for console applications, the modular design of the RP24WU is flexible enough to adjust to custom layouts and conditions.

## OPTIONS

- Mating cables
- High bright / NVIS
- Vehicle mount
- Heaters for cold start

- Connectors location and type
- Pinout allocation
- Lateral function keys
- Removable storage media



## 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**

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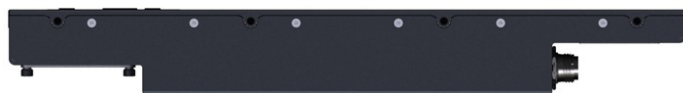www.milcots.com

# RP24WU Rugged Panel PC

The RP24WU 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 | 24" TFT Active Matrix Panel, LED backlight |
| Max Resolution | 1920x1200 (WUXGA) 16M Colors |
| Luminance | 300 Cd/m2 high bright version available |
| Touch Panel | 5 wire resistive / PCAP multi touch |
| 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 (3 ports) Power (1 port) |
| Dimensions (mm) ( in ) | 609.5 (W) x 399.0 (H) x 76.2 (D) 24.00 (W) x 15.71 (H) x 3.0 (D) |
| Weight | 11 kg (24 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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