MPL TRICOR20RC Rugged Embedded 20.1'' Panel Computer Intel® Atom up to i7 9th gen & Xeon Processors

Rugged Panel PC (TRICOR20RC)
The TRICOR20RC is a Rugged Embedded Computer and combines a built-in 20.1'' screen with excellent optical specifications and a core functional module based on MPL's Single Board Computer.

The system is constructed from military grade, high strength, and light weight HE30 grade aluminum alloy housing. Its modular architecture allows the system to be easily configurable with many options. The fanless design helps in noiseless operation, increases reliability, and gives the system a longer MTBF.

The operational accessories such as MIL connectors are available on the sides for easy access. The Unit has console mountable provisions and is suited for any application that needs a rugged and reliable solution.

The TRICOR20RC meets the MIL-STD-810F and MIL-STD-461E standards, suitable for all applications.

Key features are:

- Up to Intel® i7 9th Gen. hexa Core CPU & Xeon
- Up to 64GB memory (depending on CPU)
- Space for rugged 2.5" SSD
- Up to 3x Gigabit Ethernet
- Fanless design
- Rugged & light weight

Technical Features

	TRICOR20RC-10	TRICOR20RC-40	additional CPUs will follow
Processor	up to Intel® Atom Quad Core	up to Intel® i7 9th gen & Xeon	
Graphics	HD-Graphic for Intel Atom	Intel UHD Graphics 630	
Memory	8GB DDR3 ECC RAM	16GB DDR4, exp. up to 64GB	

Storage	512GB SATA SSD
Audio	Integrated HD audio
Display	20.1" EMI shielded active matrix LED backlighted display, 1600 x 1200 resolution, 800 cd/m2 brightness, 1000:1 contrast ratio, 16.7M colors
Touch	Touch Resistive touch screen (optional)
Keys	Up to 35 x function and 5 x display control keys

Interfaces

Power	4-wire	D38999/TVP02RW-9-35PN
Maintenance	DVI/USB/RS/….	D38999/TVP02RW-15-35SA
Dual LAN	2 x Gbit Ethernet	D38999/TVP02RW-15-35SN (more LAN on request)
Multi I/O (optional)	RS/CAN/1553/ARINC/….	D38999/TVP02RW-13-35SN
	other configurations on request	

Power Input	115/230 VAC or 18-36 VDC input
Power Consumption	<150W (depending on the selected embedded CPU board)
Software	Windows10, RHEL 7.x or above & Latest Linux OS

Mechanical

Material	Military grade high strength and light weight HE30 aluminium alloy housings
Surface	Alodine conversion coated & powder coated external surfaces
Mounting Options	Desk / Wall mount
Protection Class	IP54 all around
Dimensions	485 (W) x 400 (H) x 95mm (D) *
Weight	12kg approx.

Environmental (certified)

Operating Temperature	-10°C to +55°C
Storage Temperature	-30°C to +70°C
Shock	50g vertical, 22g horizontal half sine @ 11ms
Vibration	Sinusoidal freq. range 5-33 Hz, +/-0.125 mm, constant displacement
Humidity	95% RH @40°C
EMI/EMC	MIL-STD-461E, CE101, CE102, RE101, RE102, CS114, CS116, RS101 and RS103

Specifications marked with * is an optional feature OR it differs from product to product & its configuration.
All information contained herein is subject to change without notice.

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