

## TRICOR Embedded 20.1" Panel Computer with Intel Atom up to i7 9th Gen & Xeon Processors

### General Description

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.



### Technical Features

	TRICOR20RC-10	TRICOR20RC-40
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 (selectable)	
Audio	Integrated HD audio	
Display	20.1" EMI shielded active matrix LED backlit display, 1600 x 1200 resolution, 800 cd/m2 brightness, 1000:1 contrast ratio, 16.7M colors	
Touch	Resistive touch screen (optional)	
Keys (optional)	Up to 35 x function and 5 x display control keys	
<b>Interfaces</b>		
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	
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.	
<b>Environmental (certified)</b>		
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	

Additional CPUs will follow

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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Web: [www.mpl.ch](http://www.mpl.ch)  
Email: [info@mpl.ch](mailto:info@mpl.ch)

MPL AG, Täfernstrasse 20, CH-5405 Dättwil  
Phone +41 56 483 34 34 Switzerland



Backplane  
Systems  
Technology

Backplane Systems  
Technology Pty Ltd

TEL 02 9457 6400  
[sales@backplane.com.au](mailto:sales@backplane.com.au)  
[www.backplane.com.au](http://www.backplane.com.au)