



TRICOR Rugged 12.1" Panel Computer

with Intel Atom up to i7 9th Gen & Xeon Processors

General Description

The TRICOR12 is a Rugged Embedded Computer and combines a built-in 12.1" 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 or M12 connectors are available on the side for easy access. The Unit has console mountable provisions and is suited for any application that needs a rugged and reliable solution. The TRICOR12 meets the MIL-STD-810F and MIL-STD-461E standards.



Technical Features

	TRICOR12-10	TRICOR12-40	
Processor	up to Intel® Atom Quad Core	up to Intel® i7 9th Gen & Xeon	additional CPUs will follow
Graphics	HD-Graphic for Intel Atom	Intel UHD Graphics 630	
Memory	up to 8GB DDR3 ECC RAM	up to 64GB ECC / non ECC	
Storage	m.2, mSATA, SATA SSD		
Audio	Integrated HD audio (optional)		
Display	12.1" EMI shielded active matrix LED backlighted display, 1280 x 800 resolution, 650 cd/m2 brightness, 700:1 contrast ratio, 16.7M colors (others on request)		
Touch	Resistive touch screen (optional)		
Keys (optional)	10 x function, optional 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	
Power input	18-36 VDC input		
Power Consumption	<150W (depending on the selected embedded CPU board)		
Software	Windows10, Linux OS		
Material	Military grade 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	335 (W) x 260 (H) x 85mm (D)		
Weight	<7kg approx.		
Environmental (certified)			
Operating temperature	-20°C to +60°C (optional +70°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-810, MIL-STD-461, CE101, CE102, RE101, RE102, CS114, CS116, RS101 and RS103		

All information contained herein is subject to change without notice.