

# Product Specifications



<b>System Preferences</b>	CPU I/O Chip System Memory Watchdog Timer H/W Status Monitor  Touch screen	Intel® Celeron® J1900 4-Core 2.0GHz processor EC ITE IT8528E 1 x 204-Pin DDR3 2133MHz SO-DIMM up to 16 GB H/W Reset, 1 sec. ~65535sec./1sec.step Monitoring SYSTEM Temperature and Voltage with Auto Throttling Control 5 Wires resistive (USB Penmount)
<b>I/O Connectors</b>	Internal I/O HDD PCIe  HDD Expansion  Rear I/O USB  Serial  Ethernet Audio Display  Antenna Power	1 x 2.5" Drive Bay (7mm HDD Restricted) 1 x Mini PCI Express slots (support mSATA) 1 x Additional mini pcie available on request. 1 x SATA II 1 x Optional 80-pin internal expansion module (only 1 of bellow options) (4 x USB 3.0), (1 x HDMI + Audio), (1 x HDMI + mPCIe with SIM slot)  4 x USB 3.0  1 x RS-232 1 x RS-232/422/485 (factory configured) 1 x RS-232 2 x RJ45 (Intel® I211AT, Intel® I219LM) 2 x Speaker out 1W (Line out via expansion) 1 x HDMI (via expansion) Resolutions Up to 1920 x 1200 @ 60 24bpp Dual display support (LVDS + HDMI) 2 x RP-TNC / TNC (optional) 1 x RP-SMA in bottom side for external antenna config. (optional) 1 x DC screw type locking connector
<b>Wireless Communication</b>	WLAN WWAN	802.11 ac/a/b/g/n (optional) TNC/SMA connectors LTE & GPS options
<b>Power</b>	System Power  AC Adaptor Input Output	+12 — 26 VDC  110V ~ 250V (50 ~ 63Hz) +12 VDC/5A (60W)
<b>Environment</b>	Operation Temperature Storage Temperature Operation Humidity IP Proof Chassi Vibration Test Shock Test	Operating: -30 ~ 60C Storage: -30 ~ 70C 0% ~ 90% Relative Humidity, Non-condensing IP65 Front Panel, IP41 back panel Aluminium Alloy Chassi With SSD/mSATA : 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis Operating with SSD/CFast/mSATA : MIL-STD-810G, Method 516.6, Procedure I, functional shock=20G
<b>Mounting</b>	VESA	100mm x 100mm 75mm x 75mm



IO ports

		VMR12J - Display			
	Size	12.1" 4:3	<b>Dimensions</b>	Height	222 mm
	Resolution	1024x768		Width	283 mm
	Brightness	600 NIT cd/m2		Depth	49 mm
	Contrast Ratio	1000 NIT (optional / HB model)		Weight	2.4 kg
	Viewing Angle	700			
	Response Time	80 (U), 80 (D), 80 (L), 80 (R)			
	Backlight	16 ms			
	Backlight control	LED			
	Dimmer	PWM			
	Touch glass	Turnable Knob, 0 ~ 100 % (factory optional)			
		3.2 mm glass			