

Product Specifications



System Preferences	CPU	Intel Atom® x6413E Processor (9W, 1.5M Cache, up to 3.00 GHz)EC
	I/O Chip	EC ITE IT5571
	System Memory	8GB DDR4 3200 MHz SO-DIM, up to 32GB Max (In-BAND ECC supported)
	Watchdog Timer	H/W Reset, 1 sec. ~65535sec./1sec.step
	H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
I/O Connectors	TPM	Onboard NuvoTon NPCT754AABYX support TPM 2.0
	Touch screen	5 Wires resistive (USB Penmount)
	Internal I/O	1 x 2.5" Drive Bay (7mm HDD Restricted) Fitted with 128GB Industrial WT SSD
	M.2	1 x M.2 Key-B 2242/3042/3052 with SIM card slot, support SATA III 1 x M.2 Key-E 2230, support PCIe1, USB2.01 x SATA II
	Expansion	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), (CAN-BUS)
	Rear I/O USB	4 x USB 3.2
	COM port	1 x RS-232/422/485 1 x RS-232
	Ethernet	2 x RJ45 (Intel® I225-IT 2.5 Gigabit Ethernet)
	Audio	2 x Speaker out 2x x2 W (Line out via expansion)
	Display	1 x HDMI (via expansion) Resolutions Up to 1920 x 1200 @ 60 24bpp Dual display support (LVDS + HDMI)
Wireless Communication	Antenna	2 x RP-TNC / TNC (optional) 1 x RP-SMA in bottom side for external antenna config. (optional)
	Power	1 x DC screw type locking connector
Power	WLAN	802.11 ac/a/b/g/n & BT 4.2
	WWAN	LTE & GPS options
Environment	System Power	+12 — 24 VDC
	AC Adaptor	110V ~ 250V (50 ~ 63Hz)
	Input	60W Adapter (12V @ 5A Adapter) AC-DC Adapter
Mounting	Output	60W Adapter (12V @ 5A Adapter) AC-DC Adapter
	Operation Temperature	Operating: -20 ~ 60C
	Storage Temperature	Storage: -20 ~ 70C
	Operation Humidity	40°C @ 95% Relative Humidity, Non-condensing
	IP Proof	IP65 Front Panel, IP41 back panel
Environment	Chassi	Aluminium Alloy Chassi
	Vibration Test	With SSD/mSATA : 3Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30 mins/axis
	Shock Test	Operating with SSD/CFast/mSATA : MIL-STD-810G, Method 516.6, Procedure I, functional shock=20G
Mounting	VESA	100mm x 100mm 75mm x 75mm

IO ports



VMR12E (3412-122)



Size
Resolution
Brightness

Contrast Ratio
Viewing Angle
Response Time
Backlight
Dimmer
Touch Type

12.1" 4:3
1024x768
600 NIT cd/m2

1000
89 (U), 89 (D), 89 (L), 89 (R)
13 ms
LED
Turnable Knob, 0 ~ 100 % (factory optional)
5 Wire resistive

Dimensions

Height 221.1 mm
Width 283 mm
Depth 51.2 mm
Weight 2.4 kg

SSD
RAM
WLAN/BT

128GB
8GB
Yes

VMR15E (3415-122) (HB 3415-123)



Size
Resolution
Brightness

Contrast Ratio
Viewing Angle
Response Time
Backlight
Dimmer
Touch glass

15" 4:3
XGA (1024x768)
500 NIT cd/m2
1000 NIT (optional / HB model)
700
88 (U), 88 (D), 88 (L), 88 (R)
16 ms
LED
Turnable Knob, 0 ~ 100 % (factory optional)
3.2 mm glass

Dimensions

Height 274.5 mm
Width 350.5 mm
Depth 54.5 mm
Weight 3.7 kg

SSD
RAM
WLAN/BT

128GB
8GB
Yes