

RUGGED WORKSTATION

RB14



- Extra-large screen with 17.3" FHD LCD
- Powered with Intel® Xeon® E-2176M Processor
- Robust workstation for efficient performance and productivity
- Rugged CNC milled aluminum case to withstand harsh and extreme environments
- Designed with MIL-STD-810H & IP65 compliant
- Upgraded with EMC solution of Optional MIL-STD-461G (Ground Navy and Ground Army) available



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Standard Unit

Items	Descriptions
Platform	– Intel® Coffee Lake Platform
Operation System	– Windows 10 – Windows Server 2016/Server 2019
Processor	– Intel® Xeon® E-2176M Processor – 12MB Intel® Smart Cache, up to 4.4GHz – Intel® Vpro technology
Chipset	– Intel® CM246 Chipset
Graphic	– Intel® UHD Graphics P630
Display	– 17.3" FHD (1920 x 1080) LCD – Air Bonding – Brightness (min.~typ.): Std. 800~1000 nits
Memory	– DDR4 SODIMM x 4 – DDR4 2400 MT/s – For ECC Type, support up to 16GB/SO-DIMM – For non-ECC Type, support up to 32GB/SO-DIMM – Max. 64GB System Memory
Storage	– Std.: 2.5" SATAIII SSD* x 1 *Height: 7mm
Audio	– HD Audio and Stereo Speakers
Keyboard	– 83-key with Backlight (Membrane Type)
Touchpad	– PS/2 Resistive Single-Touch Touchpad
Buttons	– Power Button (Black)
LED Indicators	– Power/S3 (Green/Flashing Green) – SSD/Heater (Green/Orange) – Charge/Battery low (Orange/ Flashing Orange)
Security	– Password Security (Supervisor Password, User Password) – Kensington Lock Slot
Case	– CNC milled Aluminum
Color	– Black – NATO Green
Environmental Specifications	– Operating Temperature: Std. -20°C ~ +60°C – Storage Temperature: -40°C ~ +70°C
Dimensions	– 436 x 328 x 52 mm
Weight	– Approximately 7.0 kg
Certifications	– CE/FCC/UKCA – WEEE – REACH – RoHS2.0 – IP65 (without I/O caps) ¹ – MIL-STD-810H

Power	
Main Battery	– Removable Battery Pack BRWB3B: Li-Ion 10.8V/5980mAh x 2
AC Adapter	– 200W, 19V/10.5A, 100-240VAC, 50/60Hz
DC-in	– Std. DC-in 19V

Communications	
GLAN	– 10/100/1000 base-T Ethernet Std.: 1st GLAN: Intel® I219LM on MB

I/O Interfaces	
Left	– Microphone (Mini Jack) x 1 – Audio output (Mini Jack) x 1 – Line-in Jack (Mini Jack) x 1 – USB 3.1 Gen. 2 (Type A) x 1 – USB 3.1 Gen. 2 (Type A) x 1 (1.5A Fast Charging)
Right	– 1st GLAN RJ45 x 1 – Optional 2nd GLAN RJ45 x 1 – USB 3.1 Gen. 2 x 2
Rear	– DC-in Conn. (Military 2 pin) x 1 – Display Port x 1 – VGA Port x 1 – Serial Port DB9 x 2 (Default: COM1~2)* – Optional Serial Port DB9 x 2 (Default: COM3~4)* *COM1~4: On Up Board, BIOS selectable (RS232/RS422/RS485)
Bottom	– D/U Port x 1* *Signals include: PCI-e x 1, USB2.0 x1, USB3.1 x 1, +VA, +V3.3A, +V5S, +VBata, +USB5V3, GND
Internal	– Mini PCIe full-size card* x 2 (On Up Board) *2nd GLAN, one shares the location with M.2 2280 – M.2 E key 2230 x 1 (On Up Board, for WiFi/Bluetooth® module) – USB 3.1 Gen.1 x 1 – USB 2.0 x 1

Optional Devices

Items	Descriptions
Graphics	– nVIDIA® GeForce® GTX1050 4GB graphic add-on card (Default: DGPU)
WLAN/Bluetooth®	– Intel® Dual Band Wireless AC9260 – Wi-Fi Certified: 802.11 a/b/g/n/ac – Bluetooth® 5.0 – Interface: PCIe (WiFi)/ USB (Bluetooth®) – Form Factor: M.2 2230
GNSS	– Ublox Neo-M8N GPS/GLONASS (Interface: USB)
2nd GLAN Card	– Intel® I210 GLAN Card – Form Factor: mini PCIe full-size
Memory	– 8GB/16GB DDR4-2400 – 8GB/16GB DDR4-2400, ECC
Storage	– 2.5" SATAIII SSD x 3
TPM 2.0	– On Up Board *Infineon SLB9665XT2.0 FW5.61
Digital Mic	– Embedded Digital Mic
COM3/4	– Available
BVA & Surge Protector Module	– DC-in 12~32V with BVA & Surge Protector Module
Smart Card Reader	– Available
Wide Temp. -30°C ~ +60°C	– Available (with LCD heater) *Battery 10.8V/5000mAh BRWB3C (Low Temp.)
Certifications	– MIL-STD-461G (Ground Navy and Ground Army)
Battery Charger	– Multi Battery Charger MCRW for Battery: 10.8V/5980mAh Li-Ion BRWB3B 10.8V/5000mAh Li-Ion BRWB3C (Low Temp.)

¹ Optional Smart Card Reader shall be covered.