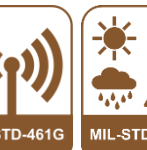




- Large screen with 15.6" FHD LCD
- Robust performance with Intel® Xeon® E-2176M Processor
- Portable workstation for achieving powerful performance
- Rugged CNC milled aluminum case to withstand harsh and extreme environments
- Designed with MIL-STD-810H & IP65 compliant
- Upgraded with EMC solution of Optional MIL-STD-461G (Ground Navy and Ground Army) available



# RUGGED WORKSTATION

# RW14



## Standard Unit

Items	Descriptions
<b>Platform</b>	– Intel® Coffee Lake Platform
<b>Operation System</b>	– Windows10 – Windows Server 2016/Server 2019
<b>Processor</b>	– Intel® Xeon® E-2176M Processor – 12MB Intel® Smart Cache, up to 4.4GHz – Intel® Vpro technology
<b>Chipset</b>	– Intel® CM246 Chipset
<b>Graphic</b>	– Intel® UHD Graphics P630
<b>Display</b>	– 15.6" FHD (1920 x 1080) LCD – Optical Bonding – Brightness (min.~typ.): Std. 210~270 nits
<b>Memory</b>	– 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
<b>Storage</b>	– Std.: 2.5" SATAIII SSD* x 1 *Height: 7mm
<b>Audio</b>	– HD Audio and Stereo Speakers
<b>Keyboard</b>	– 83-key with Backlight (Membrane Type)
<b>Touchpad</b>	– PS/2 Resistive Single-Touch Touchpad
<b>Buttons</b>	– Power Button (Black)
<b>LED Indicators</b>	– Power/S3 (Green/Flashing Green) – SSD/Heater (Green/Orange) – Charge/Battery low (Orange/ Flashing Orange)
<b>Security</b>	– Password Security (Supervisor Password, User Password) – Kensington Lock Slot
<b>Case</b>	– CNC milled Aluminum
<b>Color</b>	– Black – NATO Green
<b>Environmental Specifications</b>	– Operating Temperature: Std. -20°C ~ +60°C – Storage Temperature: -40°C ~ +70°C
<b>Dimensions</b>	– 392 x 302 x 43 mm
<b>Weight</b>	– Approximately 5.3 kg
<b>Certifications</b>	– CE/FCC/UKCA/RCM – WEEE – REACH – RoHS2.0 – IP65 (without I/O caps) <sup>1</sup> – MIL-STD-810H

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

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

I/O Interfaces	
<b>Left</b>	– 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)
<b>Right</b>	– 1st GLAN RJ45 x 1 – Optional 2nd GLAN RJ45 x 1 – USB 3.1 Gen. 2 x 2
<b>Rear</b>	– 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)
<b>Bottom</b>	– 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
<b>Internal</b>	– 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/BT module) – USB 3.1 Gen.1 x 1 – USB 2.0 x 1

## Optional Devices

Items	Descriptions
<b>Graphics</b>	– nVIDIA® GeForce® GTX1050 4GB graphic add-on card (Default: DGPU)
<b>Display</b>	– Brightness (min.~typ.): 800~850 nits
<b>WLAN/ Bluetooth®</b>	– 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
<b>GNSS</b>	– Ublox Neo-M8N GPS/GLONASS (Interface: USB)
<b>2nd GLAN Card</b>	– Intel® I210 GLAN Card – Form Factor: mini PCIe full-size
<b>Memory</b>	– 8GB/16GB DDR4-2400 – 8GB/16GB DDR4-2400, ECC
<b>Storage</b>	– 2.5" SATAIII SSD x 3
<b>TPM 2.0</b>	– On Up Board *Infineon SLB9665XT2.0 FW5.61
<b>Digital Mic</b>	– Embedded Digital Mic
<b>COM3/4</b>	– Available
<b>BVA &amp; Surge Protector Module</b>	– DC-in 12~32V with BVA & Surge Protector Module
<b>Smart Card Reader</b>	– Available
<b>Wide Temp. -30°C ~ +60°C</b>	– Available (with LCD heater) **Battery 10.8V/5000mAh BRWB3C (Low Temp.)
<b>Certifications</b>	– MIL-STD-461G (Ground Navy and Ground Army)
<b>Battery Charger</b>	– Multi Battery Charger MCRW for Battery: 10.8V/5980mAh Li-Ion BRWB3B 10.8V/5000mAh Li-Ion BRWB3C (Low Temp.)

<sup>1</sup> Optional Smart Card Reader shall be covered.



Version: 1.0.6

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**MilDef Crete Inc.**  
7 F, No. 250, Sec. 3, Pei Shen Rd., Shen Keng District, New Taipei City 22204, Taiwan (R.O.C.)  
Tel: 866-2-2662-6074 Fax: 866-2-2664-2662  
[www.mildefcrete.com](http://www.mildefcrete.com)

**MilDef Crete Australasia Pty Ltd**  
Level 9, Avaya House, 123 Epping Road, Macquarie Park, NSW 2113.  
Tel: +61 2 88757790  
[www.mildefcrete.com.au](http://www.mildefcrete.com.au)