

MilDef RB14



17" Military-Rugged Mobile workstation

The MilDef RB14 military-rugged workstation gives the rugged reliability expected from MilDef, plus a wide array of high-performance functionality in a portable platform for forward-deployed mission execution. Featuring a 17" HD screen, Intel Xeon processor, up to 128GB of RAM, RAID support, the RB14 is ideal for viewing maps, Intel Fusion, GeoInt, video and imagery analysis, and other mission essential applications required at the tactical edge. In addition, with an informed range of use-case accessories and configuration possibilities, the RB14 enables the creation of a customized solution to meet all your mission requirements. MilDef - designed for tactical military environments where reliability and performance are key.

Customizable

Are you looking for features and functions beyond the standard solutions offered by large commercial manufacturers? MilDef products are designed to enable customization to your specific program requirements, e.g. connectors, chassis modifications, mounting solutions, etc. Contact your nearest MilDef Sales Office and we will help you to find a solution that meets your requirements.

Features

- Intel® Xeon® E-2176M
- Up to 64 GB RAM
- 17.3" display
- 1000 nits Full HD LCD
- 4x Removable SSD, RAID capable
- 2x Removable Battery
- Docking connector
- Wi-Fi, Bluetooth, & GNSS (optional)
- Smart Card slot (optional)
- TPM 2.0 (optional)



Technical Specification

Case CNC milled aluminium
(Black or NATO Green)

CPU Intel® Xeon® M-2176M Processor

Display 17.3" FHD LCD (1920 x 1080)
Brightness: 1000 nits¹ (typical)

Keyboard and touch pad 83-key w. Backlight (Rubber-Membrane Type)
Resistive Touchpad

Software

Operating system Windows 10, Windows Server 2016² & Windows Server 2019²

Memory

RAM Up to 64 GB DDR4 2400 MHz
(4x SO-DIMM) ECC / non ECC

Storage 1x removable M.2 PCIe NVMe SSD
(256 GB/ 512 GB/ 1TB)
1x additional SSD (optional)

Graphics

GPU Intel® UHD Graphics P630
(integrated)

Battery

Battery 2x 10,8V / 5980 mAh Li-Ion
(standard)

Battery (extended temperature) 2x 10,8V / 5000mAh Li-Ion
optional (needed for - 30°C option)

Sound

Audio HD Audio and stereo speakers

Security & Management

TPM TPM 2.0 (optional)

Other Intel vPro Support
Smart Card Reader (optional)

Interfaces

Ethernet 1x Ethernet 1000Base-T
1x Additional Ethernet 1000Base-T
(optional)

Wi-Fi/Bluetooth 802.11 a/b/g/n/ac (optional)
Bluetooth 5.0 (optional)

GNSS Ublox Neo-M8N
GPS/GLONASS/Galileo/Beidou
(optional)

USB 4x USB 3.1 Gen 2 Type A

Video out 1x VGA
1x Display port

Express card slot No

Docking port Yes

Audio 1x Line-In, 1x Mic, 1x Headphone

Serial 2x COM³, 2x additional COM³
(optional)

Size & Weight

Dimensions 436 x 328 x 52 mm
(17.2 x 12.9 x 2 In)

Weight ~ 7 kg (15 lbs.)
(depending on configuration)

Temperature range

Operating⁴ -20 °C to +60 °C (-4 °F to +140 °F)
-30 °C to +60 °C (-22 F to +140 °F)
(optional)

Storage -40 °C to +70 °C (-40°F to +158°F)

Power

Power input 19 V_{DC}
12- 32 V_{DC} w. surge protector
(optional)

AC Adapter Please see the accessories section

Reliability

MTBF 51 896 hours

MTTR 15,961 minutes

Standards

CE / FCC / UKCA Yes / Yes / Yes

REACH Yes

Environment MIL-STD-810H
IP65

EMC/EMI MIL-STD-461G Ground Navy
MIL-STD-461G Ground Army
(optional)

Warranty

Warranty 5 years

Customization

Need anything not included in the data sheet? MilDef products are designed to enable customization to your specific program requirements. Please contact your MilDef sales team member to find the best solution for your requirements.

¹) Depending on configuration the brightness can differentiate

²) Radio frequency devices and Intel onboard graphics are not supported by Windows Server 2016 and 2019

³) Can be selected via BIOS RS232/RS422/RS485

⁴) Achieved with DC-in connected

Accessories & Options**AC/DC Adapters**

AC Adapter 200W (EU) - Indoor use	110/220 VAC (100~240 VAC), 50/60 Hz
AC Adapter 200W (US) - Indoor use	110/220 VAC (100~240 VAC), 50/60 Hz
AC Adapter 200W Ground Army - Indoor use (EU)	110/220 VAC (100~240 VAC), 50/60 Hz
AC Adapter 200W Ground Army - Indoor use (US)	110/220 VAC (100~240 VAC), 50/60 Hz
ACS150 - Rugged AC adapter 150W (IP65, MIL-STD-810G, MIL-STD-461G)	110/220 VAC (100~240 VAC), 50/60 Hz or 400Hz

Chargers

Multi battery charger	Charger for charging two batteries
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Mounting & Transport

Docking and mounting solutions	Please get in contact with your MilDef sales office for options
Bag / Backpack	Please get in contact with your MilDef sales office for additional options.