

17" Military-Rugged 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, and nVIDIA GPU, 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 of 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.

Guaranteed performance

All MilDef products come with comprehensive lifecycle sustainment support to ensure your equipment maintains peak performance for many missions to come. We also guarantee the availability of spare parts for 5 years after product end-of-life.

Features

- Intel[®] Xeon[®] E-2176M
- Up to 128 GB RAM
- 17.3" display
- 1000 nit Full HD LCD
- 4x Removable SSD, RAID capable
- 2x Removable Battery
- Docking connector
- WiFi, BT, & GPS (optional)
- NVIDIA GPU (optional)
- Smart Card slot (optional)
- TPM 2.0 (optional)

Sales: 714-898-2171

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| | Technical Specificati | on |
|--|--------------------------------|---|
| | CPU | Intel® Xeon® E-2176M Processor |
| | Display | 17.3" FHD LCD (1920 x 1080) Brightness: 1000 nits (typical) |
| | Keyboards | 83-key w. Backlight (Membrane Type) Resistive Touchpad (Single touch) |
| | Case | CNC milled Aluminium (Black or Green) |
| | Software | |
| | Operating system | Windows 10, Windows Server 2016* & Windows Server 2019* |
| | Memory | |
| | RAM | Up to 128 GB DDR4 2400 MHz (4x SO-DIMM) ECC / non ECC |
| | Storage | Up to 4 x SATA III SSD Intel RAID 0, 1, 5, 10 support |
| | Graphics | |
| | GPU | Intel® UHD Graphics P630 Nvidia® GeForce® GTX1050 4GB optional |
| | Battery | |
| | Battery | 2x 10,8V / 6900 mAh Li-Ion (standard) |
| | Battery (extended temperature) | 2x 10,8V / 5000mAh Li-lon <i>optional</i> (needed for - 30°C option) |
| | Sound | |
| | Audio | HD Audio and Stereo Speakers |
| | Security & Management | |
| | TPM | TPM2.0 optional |
| | Smart card | Smart Card reader <i>optional</i> |
| | Intel vPro | Supported |
| | Interfaces | |
| | | 1x Ethernet 1000Base-T |
| | Ethernet | 1x Additional Ethernet 1000Base-T |
| | | optional |
| | WIFI/Bluetooth | 802.11 a/b/g/n/ac optional Bluetooth 5.0 optional |
| | GPS | Ublox Neo-M8N GPS/GLONASS optional |
| | USB | 2x USB 3.1 Gen 2 (w. fast charging) 2x USB 3.1 Gen 2 |
| | Video out | 1x VGA 1x Display port |
| | Docking port | Yes |
| | Speaker | Stereo Speakers |
| | Audio out / Line in | Stereo / Stereo |
| | Mic | Mic in mono Digital Mic <i>optional</i> |
| | Serial | 2x COM** |
| | | |

| Technical Specification (cont.) | | | | | | |
|---|---|--|--|--|--|--|
| Size & Weight | | | | | | |
| Dimensions with | 436 x 328 x 52 mm | | | | | |
| bumpers (W x D x H) | (17.2 x 12.9 x 2 inch) | | | | | |
| Weight | ~ 7 kg (15 lbs) | | | | | |
| Temperature Range | | | | | | |
| | -20°C to +60°C (-4°F to +140°F) | | | | | |
| Operational DC | Battery is charging between 10°C to +45°C (+50°F to +113°F) | | | | | |
| | -30°C*** to +60°C (-22°F*** to +140°F) | | | | | |
| Operational DC | 30 0 10 100 0 (22 1 10 1140 1) | | | | | |
| (-30°C option) | Battery is charging between 0°C to +45°C (+32°F to +113°F) | | | | | |
| Operational Battery (Standard Battery) | -20°C +60°C (-4°F to +140°F) | | | | | |
| Operational Battery (Ext. Temp Battery) | -30°C + 60°C (-22°F to +140°F) | | | | | |
| Storage | -40°C to +71° (-40°F to +160°F) | | | | | |
| Reliability | | | | | | |
| MTBF (Ground Benign) | 51 896 h ours | | | | | |
| MTTR | 15.961 minutes | | | | | |
| Power | | | | | | |
| Power input | 19 VDC 12- 32 VDC w. surge protector <i>optional</i> | | | | | |
| Operating time | 5 hours | | | | | |
| | Configuration: 64GB RAM, 128GB SSD, | | | | | |
| Power consumption | 100% brightness | | | | | |
| rower consumption | Idle: 25W | | | | | |
| | Full load: 100W (with battery charge) | | | | | |
| AC Adapter | Please see the accessories section | | | | | |
| Standards | | | | | | |
| CE / FCC | Yes / Yes | | | | | |
| REACH | Yes | | | | | |
| Environment | MIL-STD-810H IP65 | | | | | |
| EMC/EMI | MIL-STD-461G Ground Navy (Designed to meet) 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.

^{***}LCD Heater active up to -20C* / -4°F



2x Additional COM* optional

^{*} Radio frequency devices and Intel onboard graphics are not supported by Windows Server 2016 & 2019

^{**} Can be selected via BIOS RS232/RS422/RS485

Accessories & Options

AC/DC Adapters

AC Adapter 200W (EU) – Indoor Use AC Adapter 200W (US) – Indoor Use

AC Adapter 200W Ground Army – Indoor Use (EU) AC Adapter 200W Ground Army – Indoor Use (US)

AC 150 – AC adapter 150W Ground Navy

(IP65, MIL-STD-810G, MIL-STD-461F & Wide temp)

AC 150 - AC adapter 150W Ground Army

(IP65, MIL-STD-810G, MIL-STD-461F & Wide temp)

Chargers

Multi battery charger

Mounting & Transport

Docking and mounting solutions

Bag / Backpack

Carrying Handle

Operating system

Windows 10 Windows Server 2016

Windows Server 2019

110/220VAC (100~240 VAC), 50/60 Hz 110/220VAC (100~240 VAC), 50/60 Hz 110/220VAC (100~240 VAC), 50/60 Hz

110/220VAC (100~240 VAC), 50/60 Hz

110/220VAC (90~264 VAC), 50/60 Hz or 400Hz

110/220VAC (90~264 VAC), 50/60 Hz or 400Hz

Charger for 2x 10,8V batteries

Please get in contact with your MilDef sales office for

options

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options

Standard option.



| Environmental Specification | |
|---|--|
| · | |
| Low Air pressure | |
| Low air pressure – Rapid Decompression MIL-STD-810H, Method 500.6, Procedure I - Storage/Air Transport | 12.192 m / 40.000 ft |
| Low air pressure - Operating MIL-STD-810H, Method 500.6, Procedure II - Operation/Air Carriage IP Class | 4.572 m / 15.000 ft |
| IP Class | IP65 |
| Freeze/Thaw | 1705 |
| Freeze/Thaw – Operational | |
| MIL-STD-810H, Method 524.1 Procedure III - Rapid Temperature Change | According to method and procedure |
| Humidity | |
| Humidity – Storage MIL-STD-810H, Method 507.6 Procedure II (Aggravated) - Figure 507.6-7 | 24-hours per cycle / Total of 10 cycles Between 30°C (86°F) and 60°C (140°F) with the relative humidity at 95% constant |
| Rain | , |
| Rain – Operating MIL-STD-810H, Method 506.6 | 276kPa(40psig) 5-surfaces |
| Procedure II Shock | 40-minutes/surface |
| Functional Shock - Operating | Table 516.7-IV |
| MIL-STD-810H, Method 516.8 Procedure I - Figure 516.8-IV | Terminal-peak sawtooth shock pulse 40g, 11ms |
| Salt Fog | C, |
| Salt fog MIL-STD-810H Method 509.7 | 5 % +- 1 % (by weight) 24 h wet + 24 h dry /cycle Total 2 cycles / 96 hours |
| Temperature | |
| Low temperature - Operating MIL-STD-810HMethod 502.7 Procedure II - Operation Low temperature - Storage | -20 °C / -4 °F (optional -30 °C / -22 °F) |
| MIL-STD-810H Method 502.7 Procedure I – Storage | -40 °C / -40 °F |
| High temperature - Operating MIL-STD-810H Method 501.7 Procedure II – Operation | 60 °C / 140 °F |
| High temperature - Storage MIL-STD-810H Method 501.7 Procedure I – Storage | 71 °C / 160 °F |
| Temperature Shock – Non-Operating MIL-STD 810H Method 503.7 Procedure I–C (Figure 503.7-3) | -40°C / -40°F to 71°C / 160°F |
| Vibrations | |
| Vibration - Operational | Table 514.8C-VII |
| MIL-STD-810H, Method 514.8 Category 20 - Ground Vehicles-ground mobile | Composite wheeled vehicle vibration exposure Figure 514.8C-6, 60-minutes/axis |
| Vibration Storage MIL-STD-810H, Method 514.8 Coteography 24 - General minimal integrity | 60-minutes/axis |



Category 24 - General minimal integrity

EMC Specification

MIL-STD-461G, Method CS101

MIL-STD-461G, Method CS116

| RЛI | I_ST | D-461G | |
|-----|------|--------|--|
| | | | |

Conducted Emissions, Power Leads MIL-STD-461G, Method CE101

30Hz to 150kHz

Conducted Emissions, Power Leads MIL-STD-461G, Method CE102

10 kHz to 10 MHz

Conducted susceptibility, power leads

30 Hz to 150 kHz

Curve #1

Bulk Cable Injection MIL-STD-461G, Method CS114

10kHz to 200MHz

Conducted susceptibility, bulk cable MIL-STD-461G, Method CS115

injection, impulse excitation

Conducted Susceptibility, Damp Sinusoidal Transients, Cables and Power

Leads,

10 kHz to 100 MHz

MIL-STD-461G, Method CS118 Personnel borne electrostatic discharge - All (ESD)

Radiated Emissions, Magnetic Field MIL-STD-461G, Method RE101

30Hz to 100kHz

Radiated Emissions, Electric Field MIL-STD-461G, Method RE102

10kHz to 18GHz

Radiated Susceptibility, Magnetic Field MIL-STD-461G, Method RS101

30Hz to 100kHz

Radiated Susceptibility, Electric Field MIL-STD-461G, Method RS103

2MHz~18GHz

