

# MilDef RW11



## **Rugged revolution**

There are three important factors when considering rugged mobile computers; weight, ruggedness and performance – The MilDef RW11 series from MilDef excels in each area.

The RW11 is a 15.6" slim yet fully rugged mobile server without sacrificing any of its rugged performance for military applications. It comes with a powerful Quad Core™ CPU, Intel HD graphics 4000 (NVIDIA GeForce® GTX950M option available), up to 4x Raidable SATA SSD and 32GB RAM, the user will have all the performance required in a highly rugged and slim package.

Despite its low weight and size, the MilDef RW11 is designed for extreme environments and is made to be used in the field. MIL-STD-810G and IP65 certification is standard.

## **Guaranteed performance**

Products supplied by MilDef, are always provided with lifetime support to ensure that the equipment maintains peak performance over many future missions.

# MilDef RW11

Technical Specification	
<b>CPU</b>	Intel® Quad Core™ i7-3610QE Processor
<b>RAM</b>	Max 32 GB DDR3L 1600 MHz
<b>Graphics</b>	Intel HD Graphics 4000
<b>Storage</b>	Up to 4x SATA II/III SSD (removable) Intel RAID 0, 1, 5, 10 Support
<b>Display</b>	15.6" TFT LCD FHD (1920 x 1080), AG Glass, optical bonding, sunlight readable.
<b>Sound</b>	HD Audio and stereo speakers Embedded digital mic
<b>Keyboard/mouse</b>	87-key LED backlit membrane keyboard with integrated numeric, Single resistive/Multi-touch capacitive touchpad
<b>Interfaces (right)</b>	2x SSD Bay (SATA II) 2x USB 2.0 1x GigaLAN RJ45
<b>Interfaces (left)</b>	2x SSD Bay (SATA III) 1x USB 3.0 (1.5A fast charger) 1x USB 3.0 1x Microphone (Mini Jack) 1x Audio output (Mini Jack) 1x Line-in Jack (Mini Jack)
<b>Interfaces (rear)</b>	1x MIL DC in 1x Display port 1x VGA 2x Serial DB9 (Default: COM1,2)
<b>Internal ports</b>	3x Mini PCIe full-size card 1x Mini PCIe full-size or half-size card 1x USB 3.0 2x USB 2.0
<b>Interfaces (bottom)</b>	1x Multi bay port: - 1 x PCI-e - 1 x USB3.0 - 1 x USB 2.0 - 1 x Power (VBATA/1A & 5V/1A)
<b>Primary Battery</b>	2x Hot-Swap 10.8V / 5800mAh Li-Ion
<b>Power Input</b>	AC Adapter 200W AC 100-240V 50/60Hz MIL DC-in 19V (MIL DC-in 12- 32V Optional)
<b>Case</b>	CNC milled Aluminum (Colors available in black or green)
<b>Dimensions</b>	392 x 302 x 42 mm (W x D x H) (with corner rubbers)
<b>Weight</b>	4.86kg – Depending on configuration
<b>Other</b>	1 x Replaceable cooling fan
<b>Certifications</b>	CE, FCC, WEEE, REACH, IP65, MIL-STD-810G* and MIL-STD-461F*, RoHS
<b>OS</b>	Windows 7, 8.1, 10, Server 2012

\*Contact MilDef for full specifications of MIL-STD-810G and MIL-STD-461F

MIL-STD-810G	Operating	Storage
<b>Altitude</b> Method 500.5, (procedure I, II)	4572 m (15000 ft)	12192 m (40000 ft)
<b>Temperature</b> Method 501.5 & 502.5, (procedure I, II)	-20 °C to 60 °C (-4 °F to 140 °F)	-40 °C to 70 °C (-40 °F to 158 °F)
<b>Temp Shock</b> Method 503.5 (procedure I)	-20 °C to 60 °C (-4 °F to 140 °F)	-
<b>Shock</b> Method 516.6, (procedure I)	40 G, 11 ms	40 G, 11 ms
<b>Vibration</b> Method 514.6, (category 1, 14 & 20)	M548 Tracked Vehicle, OH58A/C Helicopter and Composit wheeled vehicle vibration	-
<b>Rain</b> Method 506.5, (procedure II)	276 kPa, 5 Surfaces, 40 min/Surface	-
<b>Humidity</b> Method 507.5	-	Ten 24 h test cycles
<b>Salt Fog</b> Method 509.5, (procedure I)	-	Salt 5 ±1 %, 24 h wet + 24 h dry/cycle. Total 2cycles / 96 h
Options		
<b>Communications</b>	2 <sup>nd</sup> LAN RJ45 (GigaLAN) Ublox Neo-M8N GPS/GLONASS WLAN 802.11 ac/a/b/g/n & BT 4.0 (BLE)	
<b>Additional Connectivity</b>	2x Serial DB9 (Default: COM3,4) 1x Mini-Flex bay: (trade-off with 3 <sup>rd</sup> ~4 <sup>th</sup> SSD) – Express Card (54mm)/PCMCIA – Others Signals include: - 1x PCI-e - 1x GLAN - 1x USB2.0 - COM (TX/RX) - Power (+V3.3, +V5, +VBata, GND)	
<b>Display</b>	Capacitive touch screen 800 nits high brightness LCD	
<b>Extended temp. Graphic</b>	Operational Low Temp.: -30°C (-22°F) NVIDIA GeForce® GTX950M 2GB discrete add-on card*	
<b>Storage</b>	Optical drive by Custom Design Project (trade-off with 3 <sup>rd</sup> , 4 <sup>th</sup> SSD + 2 <sup>nd</sup> Battery)	
<b>Security</b>	TPM v2.0 Smart Card reader by Custom Design Project	
<b>Other</b>	Handle on front	

\*2<sup>nd</sup> replaceable cooling fan for discrete graphics add-on card

