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.

Building on the solid foundation of the Dual Core™ MilDef RS11 and RV11, now comes the RW11, a 15.6″ slim yet fully rugged mobile workstation enhancing the core design of the RV11, without sacrificing any of its rugged performance for military applications, the RW11 provides the most powerful Quad Core™ performance in its class, and more. With main features such as an Intel® i7-3610QE CPU, Intel HD graphics 4000 (NVIDIA GeForce® GTX950M option available), up to 4x Raidable SATA SSD and up to 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.

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Technical Specification

CPU	Intel® Quad Core™ i7-3610QE Processor
RAM	Max 32 GB DDR3L 1600 MHz
Graphics	Intel HD Graphics 4000
Storage	Up to 4x SATA II/III SSD (removable) Intel RAID 0, 1, 5, 10 Support
Display	15.6" TFT LCD FHD (1920 x 1080), AG Glass, optical bonding, sunlight readable.
Sound	HD Audio and stereo speakers Embedded digital mic
Keyboard/mouse	87-key LED backlit membrane keyboard with integrated numeric, Single resistive/Multi-touch capacitive touchpad
Interfaces (right)	2 x SSD Bay (SATA II) 2 x USB 2.0 1 x GigaLAN RJ45
Interfaces (left)	2 x SSD Bay (SATA III) 1 x USB 3.0 (1.5A fast charger) 1 x USB 3.0 1 x Microphone (Mini Jack) 1 x Audio output (Mini Jack) 1 x Line-in Jack (Mini Jack)
Interfaces (rear)	1 x MIL DC in 1 x Display port 1 x VGA 2 x Serial DB9 (Default: COM1,2)
Internal ports	3 x Mini PCIe full-size card 1 x Mini PCIe full-size or half-size card 1 x USB 3.0 2 x USB 2.0
Interfaces (bottom)	1 x Multi bay port: - 1 x PCI-e - 1 x USB3.0 - 1 x USB 2.0 - 1 x Power (VBATA/1A & 5V/1A)
Primary Battery	2 x Hot-Swap 10.8V / 5800mAh Li-Ion
Power Input	AC Adapter 200W AC 100-240V 50/60Hz MIL DC-in 19V (MIL DC-in 12- 32V Optional)
Case	CNC milled Aluminum (Colors available in black or green)
Dimensions	392 x 302 x 42 mm (W x D x H) (with corner rubbers)
Weight	4.86kg – Depending on configuration
Other	1 x Replaceable cooling fan
Certifications	CE, FCC, WEEE, REACH, IP65, MIL-STD-810G* and MIL-STD-461F*, RoHS
OS	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
Altitude Method 500.5, (procedure I, II)	4572 m (15000 ft)	12192 m (40000 ft)
Temperature 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)
Temp Shock Method 503.5 (procedure I)	-20 °C to 60 °C (-4 °F to 140 °F)	-
Shock Method 516.6, (procedure I)	40 G, 11 ms	40 G, 11 ms
Vibration Method 514.6, (category 1, 14 & 20)	M548 Tracked Vehicle, OH58A/C Helicopter and Composit wheeled vehicle vibration	-
Rain Method 506.5, (procedure II)	276 kPa, 5 Surfaces, 40 min/Surface	-
Humidity Method 507.5	-	Ten 24 h test cycles
Salt Fog Method 509.5, (procedure I)	-	Salt 5 ±1 %, 24 h wet + 24 h dry/cycle. Total 2cycles / 96 h

Options

Communications	2nd LAN RJ45 (GigaLAN) Ublox Neo-M8N GPS/GLONASS WLAN 802.11 ac/a/b/g/n & BT 4.0 (BLE)
Additional Connectivity	2 x Serial DB9 (Default: COM3,4) 1 x Mini HDMI 1 x Mini-Flex bay: (trade-off with 3rd~4th SSD) – Express Card (54mm)/PCMCIA – Others Signals include: - 1 x PCI-e - 1 x GLAN - 1 x USB2.0 - COM (TX/RX) - Power (+V3.3, +V5, +VBata, GND)
Display	Capacitive touch screen 800 nits high brightness LCD
Temperature	Operational Low Temperature: -30 °C
Graphic	NVIDIA GeForce® GTX950M 2GB discrete add-on card*
Storage	Optical drive by Custom Design Project (trade-off with 3rd, 4th SSD + 2nd Battery)
Security	TPM v1.2 Smart Card reader by Custom Design Project
Other	Handle on front Backpack

*2nd replaceable cooling fan for discrete graphics add-on card

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