

MilDef RS13

Data sheet



Rugged doesn't need to be bulky

There are three important factors when considering rugged mobile computers; weight, ruggedness and performance – The MilDef RS13 series excels in each area and keeps it into a slim design.

Without sacrificing any of its rugged performance for military applications, the MilDef RS13 packs all the performance needed, and more. With main features such as an Intel® Core™ i7-7600U CPU, Intel® HD graphics 620, removable SATA III SSD and up to 16 GB RAM, the user will have all the performance required in a highly rugged package that weighs only 3.2 kg including battery.

Despite its low weight and size, the MilDef RS13 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® Core™ i7-7600U
RAM	Up to 32 GB DDR4 2133 MHz
Graphic	Intel® HD Graphics 620
Storage	Removable 2.5" SATA III SSD (7mm slim type) (128GB to 1TB)
Display	13.3" FHD (1920 x 1080), LED backlight
Sound	HD Audio and stereo speakers
Keyboard/mouse	83-Backlit keyboard, Resistive Touchpad with single-touch
Interfaces (right)	1 x SSD Bay
Interfaces (left)	2 x USB 3.1 (1x USB-IF BC V1.2 for 1.5A fast charger) 1 x Giga LAN RJ45
Interfaces (rear)	1 x MIL DC-in 1 x COM (DB9) 1 x Display port, optional VGA (DB15) Optional 1-3 Fischer connectors
Interfaces (internal)	2 x Internal Full size mini PCIe 1 x Internal M.2 E Key 2230 (WiFi/BT) 1 x Internal M.2 M Key 2242 1 x Internal USB 3.1 2 x Internal USB 2.0 1 x Internal Audio/Headset 1 x VGA
Interfaces (bottom)	1 x Multi bay port: - 1 x PCI-e - 1 x USB3.1 - 1 x USB 2.0 - 1 x Power (3.3V/5V)
Primary Battery	Removable 11.1V / 6040 mAh Li-Polymer battery Typical charge time: 4 hours Typical battery life: 8 hours (JEITA v1.0)
Power Input	AC Adapter 90W AC 100-240V 50/60Hz DC-in 19V optional 12- 32V with BVA & Surge Protector
Case	CNC milled Aluminum (Colors available in black or green)
Dimensions (W x D x H)	344 x 268 x 31.5 mm (with corner covers) 13.5 x 10.5 x 1.2 in
Weight	3.2kg (7.05 lb) w/ battery
Certifications	CE, FCC, WEEE, REACH, IP65 (open port, without caps), MIL-STD-810G* and MIL-STD-461G*, WHLK
OS	Windows 10

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

MIL-STD-810G	Operating	Storage
Altitude Method 500.6, (Procedure I, II)	4572 m (15000 ft)	12192 m (40000 ft)
Temperature Method 501.6 & 502.6 (Procedure I, II)	-20°C to 60°C (-4°F to 140°F)	-40°C to 71°C (-40°F to 160°F)
Temp Shock Method 503.6 (Procedure I-A, I-C)	-20°C to 60°C (-4°F to 140°F)	-40°C to 71°C (-40°F to 160°F)
Shock Method 516.7 (Procedure I)	40 G, 11 ms terminal-peak sawtooth shock pulse	-
Vibration Method 514.7, (Category 14 & 20) Method 514.6 (Procedure I, Category 20)	Composite wheeled vehicle vibration, Rotary wing aircraft- helicopter (OH- 58AC), Tracked Vehicle (M548)	-
Rain Method 506.6, (Procedure II)	276 kPa, 5 surfaces, 40 min/surface	-
Humidity Method 507.6	-	Ten 24 h test cycles
Salt Fog Method 509.6	-	Salt 5 ±1 %, 24 h wet + 24 h dry/cycle. Total 2cycles / 96 h

Standard Options

Communications	Ublox M8N (GPS/GLONASS) WiFi (a/b/g/n/ac) / BT 5.0
Display	High Brightness Display 800 nits
Additional Connectivity	DB15 VGA port instead of DP port
	Choose up to three Mil. Fischer connectors**: - USB 2.0 - VGA - COM RS232 - COM RS422 - 2 nd GLAN - Audio
Temperature	Operating: -30°C - + 60°C (-22°F – 140°F)
Security	TPM 2.0
Accessories	Docking station (DURS)
MIL-STD-461G	Ground Army

** Each connector can only be chosen once, except for COM ports