

MilDef RK10



Where brains meet brawn

The MilDef RK10 rugged computer is designed from the inside out to perform in the most extreme conditions over the long haul. With a classic form factor and new technology on the inside, the i7 CPU, up to 16GB of SDRAM and with the optional NVIDIA graphics card you will get impressive computing performance with a long lifecycle.

You design the details

The MilDef RK10 can be customized down to the smallest detail to create the smartest solution for your needs. We can even carry out a special development project to help you create a truly unique solution.

Guaranteed performance

Our products always come with lifetime support to ensure your equipment maintains peak performance for many missions to come.



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Technical Specification

CPU	Intel Sandy Bridge i7-2610UE
RAM	Max 16 GB DDR3 1333 MHz
Graphic	Intel HD Graphics 3000
Storage	120 GB – 500 GB SATA HDD / SSD
Display	15" XGA (1024 x 768), LED Backlight 500 nits, Optical Bonding
Sound	HD Audio and Stereo Speakers
Keyboard/mouse	87-Keyboard, Standard keypad PS/2 compatible touchpad (works with water spray and gloves)
Interfaces (right)	1 x Flex Bay 1 x HDD Bay
Interfaces (left)	1 x PS/2 1 x IEEE1394a (Firewire) 2 x USB 3.0** 1 x USB 2.0 (USB battery charging) 3 x 3.5mm (Mic,Line-in/earphone) 1 x RJ45 GLAN 1 x Express card (PCIe) 2 x Serial DB9 (COM3/4) optional
Interfaces (rear)	1 x MIL DC in 12-32V 1 x DVI 1 x RGB DB15 1 x Printer Port DB12 2 x Serial Port DB9 1 x Docking Port (80 pin)
Interfaces (internal)	4 x internal mini PCIe (3 Full / 1 half size) 4 x Internal USB 2.0 4 x Serial (RS232, RS422, RS485/TTL)
Primary Battery	Removable 10.8 V 8700 mAh Lithium-Ion primary battery
Power Input	DC 12 V- 32V Optional Built in Vehicle adapter 12-32 V
Case	Magnesium alloy
Dimensions	353 x 301 x 79.2 mm (W x D x H, with rubber bumpers)
Weight	5.5 kg (depending on configuration)
Certifications	CE, FCC, WHQL, WEEE, REACH, IP65 (without protection caps), MIL-STD-810G* and MIL-STD-461F*
Operating System	Windows 7, Windows 8, Windows 10 Linux – depending on configuration

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

**Non-native USB 3.0

MIL-STD-810G

	Operating	Storage
Altitude Method 500.5, (<i>procedure I, II</i>)	4572 m (15000 ft)	12192 m (40000 ft)
Temperature Method 501.5 & 502.5, (<i>procedure I, II</i>)	-20 °C to 55 °C (-4 °F to 131 °F)	-40 °C to 70 °C (-40 °F to 158 °F)
Temp Shock Method 503.5 (<i>procedure I</i>)	-20 °C to 60 °C (-4 °F to 140 °F)	-
Shock Method 516.6, (<i>procedure I</i>)	40 G, 11 ms 122 cm (26 drops)	40 G, 11 ms 122 cm (26 drops)
Vibration Method 514.6, (<i>category 14 & 20</i>)	OH58A/C Helicopter and Composit wheeled vehicle vibration	-
Vibration Method 514.6, (<i>category 1</i>)	M548 Tracked Vehicle	-
Rain Method 506.5, (<i>procedure II</i>)	276 kPa, 5 Surfaces, 40 min/Surface	-
Humidity Method 507.5	-	Ten 24 h test cycles
Salt Fog Method 509.5, (<i>procedure I</i>)	-	Salt 5 ± 1 %, 24 h wet + 24 h dry/cycle. Total 2cycles / 96 h

Standard Options

Flex Bay / Storage	Removable 3.5" CD-ROM, CD/RW, DVD-RW 2 nd SATA HDD with heater or secondary battery. Flexbay with DC, PCIe, USB, LAN, SATA and serial signals for customer specific modules. ViaSat® Eclipt® Core encrypted HDD/SSD [Export Controlled]
Communications	10/100/1000Mbit LAN RJ45, WLAN (a/b/g/n) / BT v2.1 EDR 3.0 HS 4.0(BLE) WWAN HSDPA/UMTS/GSM/GPRS/EDGE, GPS
Additional Connectivity	1 x PCMCIA II 2 x MIL Connector upgrade for RS232/422/485 etc. External COM3/4 RS232/422/485) 100 or 1000 base fibre LAN in LC , HMC or HMA connector. DockUnder-Office (2 x RS232, 2 x USB, 1 x LAN, 1 x PS/2, 1 x DVI, 1 x RGB)
Power	Built in vehicle adapter (12-32V DC) Secondary battery 10.8V 8700 mAh Optional MIL-STD-1275B for DC input
Graphics	15" SXGA+ (1400 x 1050), NVIDIA GeForce GT520
Display	Touch screen (resistive), sunlight readable Bonding SXGA+ LED B/L LCD ASSY with 1000 nits
Keyboard	89-keys backlit keyboard, Keyboard dust cover (for std keyboard)
MIL-STD-461F	Ground Navy
Tempest	SDIP-27 Level B

