

RUGGED LAPTOP

RK12



- Powered with Intel® i7-6822EQ Processor to enhance your working efficiency.
- Rugged 15" LCD of 4:3 aspect ratio display for fitting more information vertically.
- Supported with removable 2.5" SATAIII SSD and a wide range of interfaces.
- Designed with MIL-STD-810G & IP65 compliant to withstand harsh and extreme environments.
- Upgraded with EMC solution of Optional MIL-STD-461G (Ground Navy and Ground Army) available.



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Standard Unit

Items	Descriptions
Platform	– Intel® Skylake-H Platform
Operation System	– Windows 10
Processor	– Intel® Core™ i7-6822EQ Processor – 8MB Intel® Smart Cache, up to 2.8 GHz
Chipset	– Mobile Intel® QM170 Chipset
Graphic	– Intel® HD Graphics 530
Display	– 15" (1024 x 768) LCD – Optical Bonding – Brightness (min.~ typ.): Std.: 360~450 nits
Memory	– 260 pin DDR4-2133 SO-DIMM x 2 – 8GB/16GB/32GB DDR4-2133, up to 32GB
Storage	– Removable 2.5" SATAIII HDD x 1
Audio	– HD Audio and Stereo Speakers
Sensor	– Ambient Light Sensor
Flex Bay	– Removable SATAIII ODD (Trade off with 2 nd battery)
Keyboard	– 83-key with Backlight
Touchpad	– Resistive Single-Touch Touchpad
Buttons	– Power Button (Black)
LED Indicators	– Heater (Green) – Bluetooth®/WLAN/GNSS/WWAN (Blue) – Keyboard Caps Lock (Green) – Keyboard Scroll Lock (Green) – HDD (Green) – Secondary Battery Charging/Battery low (Orange/Flashing Orange) – Primary Battery Charging/Battery low (Orange/Flashing Orange) – Power System ON/S3 (Green/Flashing Red)
Security	– Password Security (Supervisor Password, User Password) – Kensington Lock Slot
Case	– Magnesium Alloy
Color	– Black – NATO Green
Environmental Specifications	– Operating Temperature: Std: -20°C ~ +55°C (HDD with Heater) – Storage Temperature: -40°C ~ +70°C
Dimensions	– 354 x 301 x 79 mm
Weight	– Approximately 6.08 kg
Certifications	– CE/FCC/UKCA – WEEE – REACH – RoHS2.0 – IP65 – MIL-STD-810G

Power	
Main Battery	– Removable Battery Pack BRKF3A: Li-ion 10.8V/8700mAh
AC Adapter	– 90W, 100-240VAC, 50/60Hz
DC-in	– Std.: DC-in 19V – Std.:DC-in Conn.: 2 pin

Communications	
GLAN	– 10/100/1000 base-T Ethernet 1st GLAN: Intel® I219LM (on Board)

I/O Interfaces	
Left	– PS/2 x 1 (KB + Mouse) – GLAN RJ45 x 1 (Intel® I219M on Board) – USB 3.1 Gen. 1 x 2 – USB 2.0 x 2 – Supports 1.5A Fast Charging – Complying USB-IF BC V1.2 – Audio Jack x 3 (Line-In/ Microphone/ Headphone) – Express Card Slot (PCI Express) x 1 – Optional: Serial Port DB9 x 2 (Default: COM3, COM4)
Right	– 2.5" SATAIII SSD
Rear	– DC-in Conn. x 1 – Std: DC-in 2 pin – Serial Port DB9 x 2 (Default: COM1, COM2) – Docking Connector x 1 – VGA port x 1 – Display Port x 1 – DVI Port x 1 (proprietary for DP860 Display)
Internal	– Mini PCIe Slots x 3 (mSATA: trade-off with 1 x mini PCIe slot) – USB 2.0 x 4 – M.2 2230 E key x 1 – Serial Ports x 4 (COM1 ~ COM4) – BIOS selectable: RS232/RS422/RS485

Optional Devices

Items	Descriptions
Display	– Brightness (min.~typ.): 720~900 nits – Resistive Single-Touch Screen (Interface: USB)
Storage	– 2.5" SATAIII SSD* x 1 *Height: 7mm
WLAN/ Bluetooth®	– Intel® Dual Band Wireless AC8265 – Wi-Fi Certified: 802.11 a/b/g/n/ac – Bluetooth® 4.2 (Backward compatible) – Interface: PCIe (WLAN)/ USB (Bluetooth®) – Form Factor: M.2 2230
GNSS	– Ublox Neo-M8N GPS/GLONASS (Interface: USB)
Memory	– 8GB/16GB/32GB DDR4-2133 SO-DIMM
TPM 2.0	– Available (On Board)
DC-in	– DC-in Conn.: Military 3 pin
2nd Battery Pack	– Removable Battery Pack BR93E: Li-ion 10.8V/8700mAh Li-ion 10.8V/7500mAh (Low temp.) – Trade off with ODD
BVA & Surge Protector Module	– DC-in 12~32V with BVA & Surge Protector Module
COM3/COM4	– On Board – DB9 ports (x2) on left or via Military Serial Connector
Wide Temp. -30°C ~ +55°C	– Available
Certifications	– MIL-STD-461G (Ground Navy and Ground Army)
Battery Charger	– Multi Battery Charger MCRK for Battery: 10.8V/8700mAh Li-Ion BRKF3A 10.8V/8700mAh Li-Ion BR93E 10.8V/7500MAH Li-Ion BR93I (Low temp.)
External Vehicle Adapter	– EVA 1275 – EVA19040