MilDef DF8A

The MilDef DF8A is a new End User Device (EUD) from MilDef, building on the solid foundations of the MilDef DF7A, and packing significantly more punch compared to its predecessor. The new form factor remains almost identical making it especially suitable for the dismounted platoon/company commander and for specialists. Perfect for applications where you need high connectivity in a small and lightweight device while providing the familiarity of the Android operating system.

Get all the extra connectivity you need as you choose from the optional rugged connectors on the unit or alternatively by connecting the DF8A by only one cable to a Breakout Box which supplies the extra interfaces from a compact and rugged box designed to meet both MIL-STD-461F and MIL-STD-810F. Please contact MilDef for more information about the Breakout Box.

MilDef DF8A is built for such military applications as:

- Dismount Situational Awareness
- Walk-on Fit (WoF) Mounted Situational Awareness

MilDef DF8A

Technical Specification

CPU	Freescale FCPBGA 624 Quad-Core Cortex 1.0 GHz A9
RAM	2GB LPDDR2 RAM
ROM	32 GB eMMC
OS	Android™ 4.4.3 (Support for newer OS)
Storage	External Micro SD
Display	5" WVGA (480 x 800) Sunlight-readable with capacitive¥ multi touch screen, LED backlight 400~450 nits, optical bonding, anti-glare, anti-reflective screen treatments
Sound	Mono speaker Built-in mic Receiver Headset
Buttons	Power on-off / suspend button / input lock Volume up/down
Function Key (Front)	Touch Type on Panel 3 keys: Back/ Home /Menu
Interfaces (right)	1 x Micro SD
Interfaces (top)	2x Optional SMA Connector for two of the following): WWAN, WLAN, GPS ANT
Interfaces (bottom)	1x Sealed DC-in 5V with MIL-Conn. 3x Optional - Choose 1 out of the below for each one of the 3 conn. 1x Audio 1x USB 1x MLAN 1x RS232 1x VGA
Sensors	Magnetic, Accelerometer, Gyro, Proximity & Light
Primary Battery	3,7 V / 3520 mAh Lithium-Ion battery.
Power Input	5 VDC (Optional 10-32 VDC)
Case	Aluminium alloy
Dimensions	94 x 171 x 28 mm (W x H x D)
Weight	405 g – Based on config.
Certifications	CE, FCC,WEEE, REACH, RoHS 2.0, IP66, MIL-STD-810G* and MIL-STD-461F*, Explosive Atmosphere/Solar Radiation

*Contact MilDef for full specifications of MIL-STD-810G and MIL-STD-461F
¥To meet MIL-STD-461F a Resistive Single Point touchscreen must be used (300 Nits Typ.)

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 131 °F)	-40 °C to 70 °C (-40 °F to 158 °F)
Temp Shock Method 503.5 *(procedure I-A)*	-20 °C to 60 °C (-4 °F to 140 °F)	-
Shock Method 516.6, *(procedureI & IV)*	40 G, 11 ms Terminal-peak sawtooth shock pulse	122 cm (26 drops)
Vibration Method 514.6 *(Procedure I & IV - category 14, 20 & 24)*	OH58A/C Helicopter, Composit wheeled vehicle vibration and All material- minimum integrity test	-
Rain Method 506.5, *(procedure II)*	276 kPa, 5 Surfaces, 40 min/Surface	-
Humidity Method 507.5 & 507.5-7 *(procedure II)*	-	Ten 24 h test cycles, Total of 10 cycles. Between 30°C (86°F) and 60°C (140°F) with the relative humidity at 95% constant
Salt Fog Method 509.5, *(procedure I)*	-	Salt 5 ± 1 %, 24 h wet + 24 h dry/cycle. Total 2 cycles / 96 h

Standard Options

Communications	GPS WiFi 802.11 b.g.n / BT v4.0
Additional Connectivity	1x Sealed Audio (optional) 1x FM SMA ANT (optional) 1x WIFI (optional) 1x GPS SMA ANT (optional) 1x POGO Connector (Optional)
Power	Sealed DC-in 10~32V with BVA - 36W (12V/3A) AC Adapter (trade-off with L1 Fischer connector) Double capacity battery - 3.7V / 7040mAh Lithium-Ion battery
System Options	-30 °C Option