

SmartPad

full rugged Android

DF8A

Handheld



The Ultra Mobile DF8A is a fully rugged, Android™ 7.1.1 based Handheld for the Infantryman of the future. As one of only a few units in the field of fully rugged IT hardware the DF8A offers a large number of possible interfaces with military grade connectors.

Technical specification

Display	5" WVGA (480 x 800) LCD <ul style="list-style-type: none"> • brightness (min-typ.) 400-450 cd/m² • optical bonding • sunlight readable • anti-glare-display • LED backlight • capacitive multi touch screen 	Interfaces	Micro SD Card slot, SIM card slot, Cradle connector
CPU	Freescall ARM Cortex-A9 i.MX6 Quad Core 1.0 GHz (FCPBGA 624)	Sensors	provide 5 feature: magnetic, gravity, gyro, proximity & light
OS	Android™ 7.1.1	Wireless Connections	<ul style="list-style-type: none"> • WLAN/ WiFi, IEEE 802.11 (2.4 GHz) • Bluetooth 3.0, IEEE 802.15.1 (2.4 GHz)
Graphics	built-in display controller Vivante GC2000 <ul style="list-style-type: none"> • OpenGL/ES 2.x, • OpenCL/EP, OpenVG 1.x 	Audio	mono speaker, built-in mic, headset
Memory	2 GB LPDDR2 RAM / 32 GB ROM eMMC	Power supply	<ul style="list-style-type: none"> • DC-In connector (LEMO 8pin) incl. USB client function • AC-Adapter 20W (5V / 4A) • Li-ion battery 3520 mAh, 3.7V, (4.5 hrs)
Storage (external)	Micro SDHC card slot >> with up to 32 GB SDHC/SDXC card	Certification	CE, FCC, WEEE, REACH, RoHS2.0, IP66, MIL-STD 810G
Buttons	3 function keys: back/home/menu power on/off, suspend button, volume +/-	Housing	rugged aluminum alloy
		Colour	black
		Dimensions	169 mm x 90 mm x 24.5 mm (w/o bumper) 171 mm x 94 mm x 28 mm (w bumper)
		Weight	370 g

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 +55°C	-40°C to +70°C
Temperature shock Method 503.5, (Procedure I)	-20°C to +60°C	-20°C to +60°C
Rain Method 506.5, (Procedure I)	276 kPa, 0.5 - 4.5 mm diameter	276 kPa, 0.5 - 4.5 mm diameter
Humidity Method 507.5, (Procedure I)	N/A	Five 24h test cycles 95 %
Salt fog Method 509.5, (Procedure I)	N/A	5+ -1% 24 h wet + 24 h dry/ cycle Total of 2 cycles/ 96 hours
Vibration Method 514.6, Category 14 (Procedure I) Method 514.6, Category 20 (Procedure I) Method 514.6, Category 24 (Procedure IV)	Ground Vehicles-ground mobile Rotary wing aircraft-Helicopter All material-minimum integrity test	Ground Vehicles-ground mobile Rotary wing aircraft-Helicopter All material-minimum integrity test
Shock / drop Method 516.6, (Procedure I)	40 G, 11ms	122 cm (26 drops)

MIL-STD 461F

CE101	30 Hz ~ 10 KHz	CE101-4 Curve #1
CE102	10 KHz ~ 10 MHz	115 V, Basic Curve +6db
CS101	30 Hz ~ 150 KHz	CS101-1 Curve #1
CS114	10 KHz ~ 200 KMz	Curve #5-5-5
CS115		All
CS116	10 KHz to 100 KMz	I _{max} = 10 A
RE101	30 Hz ~ 100 KHz	RE101-2, Navy
RE102	10 KHz ~ 18 GHz	RE102-4, Navy Fixed & Air Force
RS101	30 Hz ~ 100 KHz	RS101-1, Navy



DF8A (left & right side)

DF8A (bottom side)
with optional MIL connectors

DF8A (rear side)

Options

- resistive single touch screen
- SMA connectors Top side for WLAN, GPS antennas
- GPS module (uBlox Neo-M8N)
- optional expansion connector right side:
 - USB, RS232, MLAN
- built-in vehicle adapter 12-32 V_{DC}
(trade-off: maximum 2 optional connectors at bottom side)
- connector options at bottomsides:
 - (3 of 5 options can be integrated per unit)
 - USB connector (sealed)
 - MLAN connector (sealed)
(trade-off with WLAN)
 - Audio/headset connector (sealed)
 - RS232 connector (sealed)
 - VGA connector (sealed)

Optional certifications & modifications

- MIL-STD 461F certification
 - Ground Navy (Navy fixed & Air Force)

Only possible with resistive touch screen!

Accessories

- double capacity Li-ion battery, 7040 mAh, 3.7 V (9 hrs)
- multi charger for battery pack
- USB client adapter cable for DC-In
- carry bag

