

HANDHELD COMPARISON CHART



MESA 2



MESA 3



CEDAR CT8



CEDAR CP3

SYSTEM

Operating System	Windows 10 Professional or Android 5.1	Windows 10 Professional (Android 9.0 coming soon)	Android 8.1	Android 7.1.2
Processor	Quad-core Intel® Atom™ Z3745 processor	Quad-core Intel® Pentium N4200 processor	Qualcomm MSM8953 8-core 2.2GHz Snapdragon 626	Qualcomm Snapdragon 653 Octa-core
Memory (RAM)	4 GB	8 GB	3 GB	6 GB
Internal Storage (max)	64 GB or 128 GB options	128 GB or 256 GB options	32 GB	64 GB
Screen Size (diagonal)	7" (178 mm)	7" (178 mm)	8" (203.2 mm)	5.5" (139.7 mm)
Screen Orientation (primary)	Portrait	Portrait	Portrait	Portrait
Screen Resolution	1280 x 800	1280 x 800	1280 x 800	1920 x 1080
Screen Type	High-visibility projected capacitive	High-visibility projected capacitive	Capacitive	Capacitive
Weight (includes battery)	1.5-2 lbs (680-907 g)	1.5-2 lbs (680-907 g)	1.2 lbs. (560 g)	0.55 lbs. (250 g)
Battery Life (default settings)	10 hours (15 with optional built-in battery)	10 hours (15 with optional built-in battery)	8 hours	Standby 480 hours, Talking 50 hours, Heavy Use 14 hours

RUGGEDNESS

Ingress Protection	IP68 waterproof & dustproof	IP68 waterproof & dustproof	IP67	IP68
Shock/Drop	Multiple drops 4' (1.2 m) to concrete	Multiple drops 4' (1.2 m) to concrete	Multiple drops 3.3' (1.0 m) to concrete	Multiple drops 3.3' (1.0 m) to concrete
Operating Temp.	-4 F to 122 F (-20 C to 50 C)	-4 F to 122 F (-20 C to 50 C)	-4 F to 140 F (-20 C to 60 C)	-22 F to 140 F (-30 C to 60 C)
Storage Temp.	-22 F to 158 F (-30 C to 70 C)	-22 F to 158 F (-30 C to 70 C)	-22 F to 140 F (-30 C to 60 C)	-22 F to 140 F (-30 C to 60 C)
MIL-STD	810G	810G	810G	810G
Intrinsically Safe	Class I, II, and III, Div 2 Group A, B, C, D, F, G	Class I, II, and III, Div 2 Group A, B, C, D, F, G	No	No

CONNECTIVITY

Secure Digital (SD/SDHC) slot	MicroSDXC	MicroSDXC	MicroSD up to 128GB	MicroSD up to 128GB
USB client	Yes	Yes	Type-C	Type-C
USB host	Yes	Yes	Type-C	Type-C
Serial RS-232 9-pin port	Optional	Optional	No	No
Audio jack	Yes	Windows Only. Android Audio through USB-C	Via Type-C	Yes
Integrated Bluetooth	Yes	Yes	Yes	Yes
Integrated wireless LAN (Wi-Fi)	Yes	Yes	Yes	Yes
Cell Modem	Optional 4G LTE	Optional 4G LTE	FDD-LTE, TDD-LTE, GSM, TD-SCDMA, EVDO, WCDMA	4G LTE, Dual SIM
Integrated camera	Optional 8 MP rear, 2 MP front	Optional Windows 8 MP rear, 2 MP front	Rear 16MP, Front 5MP	Dual Rear 12MP, Front 16MP
GPS with WAAS/SBAS	Internal	Internal	Internal with SBAS	Internal no SBAS
GPS Accuracy	2-5 m	2-5 m	2-5 Meters	2-5 Meters
Submeter GPS Post-processing	Yes (select models)	Yes (select models)	No	No

USER INTERFACE

Touchscreen	Yes	Yes	Yes	Yes
On-screen keyboard	Yes	Yes	Yes	Yes
Keypad style	PDA	PDA	Android Keypad on screen	Android Keypad on screen
Support external keyboard	Yes	Yes	Yes, via BT	Yes, via BT
Integrated barcode scanner	Optional 1D/2D	Optional 1D/2D	Optional 1D/2D	No
RFID	Optional	Optional	Optional	No

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HANDHELD COMPARISON CHART



ARCHER 2



ARCHER 3



ALLEGRO 2



ALLEGRO 3

SYSTEM

Operating System	Windows Embedded Handheld 6.5.3	Android 7.1 AOSP	Windows Embedded Handheld 6.5.3	Android 7.1 AOSP
Processor	1.0 GHz ARM Cortex A8 i.MX53 processor	1.2GHz quad-core ARM Cortex A9 i.MX6 processor	1.0 GHz ARM Cortex A8 i.MX53 processor	1.2GHz quad-core ARM Cortex A9 i.MX6
Memory (RAM)	512 MB	2GB	512 MB	2 GB RAM
Internal Storage (max)	8 GB	16GB flash storage	8 GB	16 GB flash storage
Screen Size (diagonal)	4.3" (109 mm)	4.3" (109 mm)	4.2" (107 mm)	4.2" (107 mm)
Screen Orientation (primary)	Portrait	Portrait	Landscape	Landscape
Screen Resolution	800 x 480	800 x 480	640 x 480	640 x 480
Screen Type	High-visibility projected capacitive	High-visibility projected capacitive	High-visibility projected capacitive	High-visibility projected capacitive
Weight (includes battery)	1.3 lbs (590 g)	1.3 lbs (590 g)	2 lbs (908 g)	2 lbs (908 g)
Battery Life (default settings)	20 hours	20 hours	20 hours	20 hours

RUGGEDNESS

Ingress Protection	IP68 waterproof & dustproof	IP68 waterproof & dustproof	IP68 waterproof & dustproof	IP68 waterproof & dustproof
Shock/Drop	Multiple drops 5' (1.5 m) to cement	Multiple drops 5' (1.5 m) to cement	Multiple drops 4' (1.2 m) to concrete	Multiple drops 4' (1.2 m) to concrete
Operating Temp.	-22 F to 140 F (-30 C to 60 C)	-22 F to 140 F (-30 C to 60 C)	-22 F to 140 F (-30 to 60 C)	-22 F to 140 F (-30 to 60 C)
Storage Temp.	-22 F to 158 F (-30 C to 70 C)	-22 F to 158 F (-30 C to 70 C)	-22 F to 158 F (-30 to 70 C)	-22 F to 158 F (-30 to 70 C)
MIL-STD	810G	810G	810G	810G
Intrinsically Safe	Class I, II, and III, Div 2	Class I, II, and III, Div 2	No	No

CONNECTIVITY

Secure Digital (SD/SDHC) slot	Yes, MicroSD/SDHC	Yes, MicroSD/SDHC	Yes, MicroSD/SDHC	Yes, MicroSD/SDHC
USB client	Yes	Yes	Yes	Yes
USB host	Yes	Yes	Yes	Yes
Serial RS-232 9-pin port	Yes	Yes	Yes	Yes
Audio jack	Yes	Yes	Yes	Yes
Integrated Bluetooth	Yes	Yes	Yes	Yes
Integrated wireless LAN (Wi-Fi)	Yes	Yes	Yes	Yes
Cell Modem	Optional 3.75G	No	Optional 3.75G	4G LTE CAT-4/3G-fallback
Integrated camera	Optional 5 MP rear	Optional 5 MP rear	Optional 5 MP rear	Optional 5 MP rear
GPS	High-sensitivity GPS/GLONASS/SBAS	High-sensitivity GPS/GLONASS/Galileo/BeiDou/QZSS/SBAS	High-sensitivity GPS/GLONASS/SBAS	High-sensitivity GPS/GLONASS/Galileo/BeiDou/QZSS/SBAS
GPS Accuracy	2-5 m	2-5 m	2-5 m	2-5 m
Submeter GPS Post-processing	Yes	Yes	Yes (select models)	Yes (select models)

USER INTERFACE

Touchscreen	Yes	Yes	Yes	Yes
On-screen keyboard	Yes	Yes	Yes	Yes
Keypad style	Numeric	Numeric	QWERTY-numeric	QWERTY-numeric
Support external keyboard	Yes	Yes	Yes	Yes
Integrated barcode scanner	Optional 1D/2D	Optional 1D/2D	Optional 1D/2D	Optional 1D/2D
RFID	No	No	No	No

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