










	Armor	Casio	FreshTech		Getac			Handheld	
	X7ad	V-T500	Rugged 8" tablet	Rugged 10" tablet	MX50	Z710	ZX70	Algiz RT-7	Nautiz X2
									
Operating System	Android 3.2	Android 4.0	Windows 10/ 10 Pro/ Android 5.1	Windows 10/ 10 Pro/ Android 5.1	Android 5.1	Android 4.1	Android 6.0	Android 6.0 (Marshmallow) Google GMS (Google Play)	Android 6.0 (Marshmallow)
Processor	NVIDIA Tegra™ 2 1.0 GHz Dual Core	OMAP 4460 1.5GHz Dual-core	Intel cherrytrail Z8350	Intel cherrytrail Z8350/Z8300	Intel® Atom® Z8350 1.44GHz	OMAP 4430 Dual Core 1 GHz	Intel® Atom™ x5-Z8350 1.44GHz, burst up to 1.9	Qualcomm® MSM8916 – quad core ARM Cortex A53, 1.2 GHz	1.3 GHz quad-core ARM® Cortex-A53 MPCore™
Memory									
	RAM	1GB DDR2 SDRAM	1GB	2GB / 4GB	2GB LPDDR3	1GB MDDR	2GB	2 GB LP-DDR3	1 GB
	ROM	16GB eMMC Flash	16GB	32GB / 64GB(16GB/32GB/128GB Optional)	32GB / 64GB(16GB/32GB/128GB Optional)	64GB / 128GB	16GB NAND flash	4GB eMMC 32GB / 64GB	16 GB eMMC1
SD Slot	MicroSD	Micro SD, MicroSDHC1	Micro USB, HDMI	Micro USB, HDMI	Micro SD	Micro SD (up to 32GB)	Micro S	Dual SIM, SDHC slot 32 GB	MicroSD/MicroSDHC
Drop Spec	4ft	1m	Shock & vibration	Shock & vibration	5ft	6ft	6ft	4ft	4ft
Ingress Protection	IP65	IP54	IP67	IP65	IP67	IP65	IP67	IP65	IP65
WLAN	802.11 b/g/n	802.11a/b/g/n	802.11 ac/b/g/n	802.11 ac/b/g/n	802.11 a/b/g/n	802.11 b/g/n	802.11 a/b/g/n	802.11 b/g/n	802.11 a/b/g/n (Dual-band: 2.4G+5G)
PAN	BT v2.1 + EDR	v4.0	v4.0	v4.0	v4.0	BT v2.1 + EDR	BT v4	BT v4.1 LE	BT 4.0 LE
WWAN	GSM/GPRS/EDGE, UMTS/HSDPA/HSUPA or CDMA optional	HSPA/UMTS/EGPRS (EDGE)GPRS	3G WCDMA / 4G LTE	3G WCDMA / 4G LTE		Optional 3G (HSPA+/UMTS/GSM/GPRS/EDGE)	Optional	2.5G (GSM, GPRS,EDGE) 3G (UMTS, HSPA+) 4G (LTE)	GSM / HSPA+ (3G) / LTE (4G)
GPS	Yes	16-channel receiver	GPS/BeiDou	GPS/BeiDou	Yes	Yes - with internal antenna	Dedicated GPS	Integrated	GPS/GLONASS
Imager	No				No	No	Optional	Optional 2D	1D / 2D
Camera	1.3 MP Front, 5.0 MP Rear	Front: 5.0 MP Rear: 5MP with LED light	2.0MP front; 5.0MP rear	2.0MP front; 5.0MP rear	8MP rear	HD Web 5M pixels auto focus	8MP rear	2MP front, 8MP rear	8.0 Megapixel with LED flash
Keypads	Touch screen	Touch Screen	8" Dragontrail Glass Capacitive Touch	10" Gorilla Glass Capacitive Touch	Touch Screen	Glove-friendly capacitive touchscreen	Capacitive multi-touch	4 programmable function, capacitive multi-touch	Four keys on front side
Batteries	3700 mAh	Lithium-Polymer (7000 mAh)	3.7V/7500mAh	3.7V/7500mAh	Li-Ion 3.7V, 4200mAh	Lithium-Polymer (7600mAh)	Li-Ion 3.8V, 8400mAh	Li-Ion, 3.7V 6000 mAh	Lithium-Polymer 3300 mAh
Dimensions (mm)	214 x 132 x 21	190 x 269 x 14.4 mm	220 x 143 x 14	267 x 183 x 16	188 x 105 x 18	27.4 x 21.8 x 14.2	218 x 142 x 27	216 x 128 x 24	150 x 73.5 x 16
Weight	0.60 Kg	780g	0.5kg	0.699kg	400g	800 g	780g	650g	230g
Display	7" WXGA LED backlit LCD	10.1 inch/WXGA (1280x800) LCD	8" 800*1280 I	10" 800*1280 IPS	5.7" IPS TFT LCD HD	7.0" TFT LCD WSVGA	7" IPS TFT LCD HD	7" WSVGA	4.7" IPS panel
RFID	No	No			No	No	Optional	Optional 13.56 MHz	No
Connectors	Mini USB OTG, HDMI, 3.5mm Audio Jack		SDHC/SDXC; 12pin Pogo Pin; Micr usb 3.0; Host for windows; SIM; Micro HDMI; DC; 3.5mm standard earphone	SDHC/SDXC; 12pin Pogo Pin; Micr usb 3.0; Host for windows; SIM; Micro HDMI; DC; 3.5mm standard earphone	HD webcam ,8MP rear camera, Micro USB OTG, Headphone out/Mic-in, Optional Rugged Connector x 1	USB (client 2.0) x 1 USB (host 2.0) x 1	FHD webcam ,8MP rear camera, Micro USB, Docking, DC in, Micro SD, Optional RF antenna pass-through	USB A Host; USB micro (PC sync and charging); RJ45 (Ethernet); 3.5 mm headset (stereo and mic); 3.5 mm DC inlet	Micro USB 2.0; Dock connector for charging; 3.5mm headset
Notes		NFC reader / writer							

		Janam		Kestronics		MiTAC			Panasonic		
		XT1	XT2	T70H	Bumble Bee	Dino	Ulmo	Toughpad FZ-A2	Toughpad FZ-B2	Toughpad FZ-L1	Toughbook FZ-N1
											
Operating System		Android 4.2	Android 5.x Lollipop or Windows 10	Android 4.2	Android 4.1	Android 4.1	Android 4.0	Android™ 6.0 Marshmallow	Android™ 6.0 Marshmallow	Android 8.1 (Oreo)	Android 5.1.1 (Lollipop)
Processor		Dual-core ARM Cortex-A9 @1.5GHz	Quad-core Qualcomm MSM8916 CPU @1.2GHz	MTK6589T 1.5 Ghz Cortex A7 QuadCore	ARM Cortex A9 Dual	ARM Cortex A9 Dual	Samsung 1.0 GHz	Intel® Atom™ x5-Z8550	Intel® Atom™ x5-Z8550	Qualcomm® MSM8909 1.1GHz Quad	Qualcomm® MSM8974AB 2.3GHz Quad
Memory	RAM	1GB	1GB or 8GB	1G + 8G EMCP	1GB	1GB	512 MB	4 GB	2GB	2GB	2GB
	ROM	16GB	2GB/16G	Up to 32GB	8GB	8GB	4GB - 16GB	32GB eMMC	32GB eMMC	16 GB	16GB
SD Slot		Micro SD	USB 2.0	Micro USB	Micro SD (up to 32 GB)	Micro SD (up to 32 GB)	Micro SD	Micro SD/SDHC	Micro SD/SDHC Memory Card	MicroSDXC (up to 64 GB)	Micro SD/SDHC Memory Card
Drop Spec		3ft	5 ft	1m	1.2m	1.2m	1M	1.2m	150cm	152cm	150cm
Ingress Protection		IP54	IP67	IP65	IP54	IP54	IP54	IP65	IP-65	IP65 and IP67	IP-X5
WLAN		802.11a/b/g/n	802.11a/b/g/n	802.11 b/g/n	802.11a/b/g/n	802.11a/b/g/n	802.11b/g/n	Intel® Dual Band Wireless-AC 8260	Dual Band Wireless-AC 8260	802.11 a/b/g/n/d/h/i/r	Dual Band Wireless-AC 8260
PAN		BT v4.0	BT v4.0	BT v4.0	BT v4.0	BT v4.0	2.1 + EDR	BT v4.2 + EDR Class 1	BT v4.2+ EDR	BT v4.2	BT v 4.2 + EDR Class 1
WWAN		UMTS/HSDPA/HSUPA/GSM	EDGE/GPRS/GSM; WCDMA; LT	2G: GSM/GPRS/EDGE. 850/900/1800/1900 3G: WCDMA/HSPA 3.75G (HSDPA+ 42.2Mbps, HSUPA+ 11.5Mbps)	LTE (Optional)	LTE (Optional)		4G Option (Gobi 5000), supports 3G	4G Option (Gobi 5000), supports 3G		4G option Option (Gobi 5000), supports 3G
GPS		Yes	Qualcomm® IZat™	GPS/AGPS/EPO	Yes	Yes	Compass	Integrated	Integrated	GPS GPS/GLONASS CEP50	Integrated
Imager		1D, 2D	1D, 2D	No	1D/2D Professional Barcode reader	1D/2D Professional Barcode reader	No	2D barcode (opt)	Optional (2D Barcode)	Optional 1D/2D	2D Barcode Reader, LAN
Camera			2MP front, 8MP rear	8.0 Megapixel with LED flash	Rear: 5M pixels Front: 2 M Pixels	Rear: 5M pixels Front: 2 M Pixels	1.3 MP Front, 5.0 MP Rear	2.0 Front, 8MP Rear	2 MP Front, 8 MP Rear	8MP rear	2 MP Front, 8 MP Rear
Keypads		Capacitive touch	Capacitive touch	Touch screen	Capacitive touch 12 numeric	Capacitive touch 12 numeric	Onscreen	10 finger capacitive multi-touchscreen	10 finger capacitive multi-touchscreen	10 point capacitive multi-touch. On-screen QWERTY	10 finger capacitive multi-touchscreen
Batteries		3000mAh Li-ion	Li-Ion 3000mAh (4000mAh opt.)	10000mAh	3415 mAh	3415 mAh	Polymer 3850mAh	Lithium-Ion (11.4V, 2720mAh)	Lithium-Ion (7.2V, 3320mAh)	Li-ion 3.8V, 3,200 mAh	Lithium-Ion (7.2V, 3320mAh)
Dimensions (mm)			155 x 83 x 24	201x136x22mm	72x135x25	72x135x25	131.8 x 220 x 16.8	272 x 16.4 x 196	203 x 18 x 132mm	193 x 132 x 12.7	203 x 18 x 132mm
Weight		370g	279g (293g inc MMR)	650g			0.580kg	880g	Approx. 540g	421.8g	Approx. 540g
Display		5.9" Color TFT WVGA	5.0" HD	7" IPS/AFFS 1024x600	7" TFT 240x320	5" TFT 240x320	7" TFT LCD	10.1" sunlight-viewable WUXGA	7" sunlight-viewable WXGA Active Matrix (TFT) IPS LCD	7" high definition 1280 x 720	7" sunlight-viewable WXGA Active Matrix (TFT) IPS LCD
RFID		Yes	Yes	No	No	No			UHF RFID, (opt)		
Connectors					Mini USB/ Micro SD / USB 2.0 / MIC & 3.5mm earphone / SIM / POGO	Mini USB/ Micro SD / USB 2.0 / MIC & 3.5mm earphone / SIM / POGO	USB, Mini USB, Micro SD		USB 3.0, USB 3.1; Headset, Port Replicator; Dual Antenna	Docking / Micro-USB / Mini-jack stereo head & mic/ xPak	USB 3.0, USB 3.1; Headset, Port Replicator; Dual Antenna
Notes		Hazardous locations			Supported payment features (PCI EPD 3.x/EMV L 1)	Supported payment features (PCI EPD 3.x/EMV L 1)	Accelerometer				

		Pidion		Samsung		Sumo		Unitech	XPlore	Zebra
		BP50	BP70	Galaxy Tavb Active	ST3075Q	ST370A	ST357	TB120	XSLATE D10	ET50/55
										
Operating System		Android 4.0	Android 4.0	Android Kitkat	Android 4.2	Android 2.3 (Gingerbread) Android 4.0 (Ice Cream Sandwich)	Android 4.1	Android 4.1.1 Jelly Bean	Android™ Lollipop 5.1, 6.0.1, Marshmallow	Windows Industry Embedded 8.1 Pro with Connected Standby (Windows 10 ready) Available in Q1 of 2016 as Android
Processor		Dual-core	Dual-core	Quad Core, 1.2GHz	Quad Core, 1.4GHz	Samsung 1.0GHz	Quad Core, 1.2GHz Qualcomm Snapdragon 200 MSM8225Q, ARM v7	TI OMAP 4470 1.5Ghz Dual	Intel® Atom™ E3845 Quad Core 1.91 GHz	Intel quad core 2.4 GHz 64 bit
Memory	RAM	1GB	1GB	1.5GB	1GB	512MB	1GB	1GB Mobile DDR	4 GB DDR3L	4GB LPDDR3
	ROM	16GB	16GB	1.6GB	8GB	4GB to 16GB	8GB Flash	8GB eMMC Flash	64 GB SSD	64 GB eMMC Flash
SD Slot		Micro HDMI	Micro HDMI	Micro-SD up to 64GB	Micro-SD up to 32GB	MicroSD Slot up to 32GB	Micro-SD up to 32GB	Micro SD	Micro SDXC	USB2.0
Drop Spec		4ft	5ft	1.2m		3ft	4ft	4ft	5ft	1m
Ingress Protection		IP65	IP65	IP67		IP54	IP67	IP65	IP65	IP65
WLAN		802.11a/b/g/n	802.11a/b/g/n	802.11a/b/g/n, NFC	802.11a/b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11ac	802.11a/b/g/n/k/r
PAN		BT V2.1 + EDR	BT V2.1 + EDR	BT 4.0 BLE	BT 4.0 HS	BT v2.1 + EDR	V2.1 EDR+A2DP	BT v4.0	BT v4.0	BT v4.0
WWAN		Optional, 4G LTE, HSPA+/HSPA/UMTS, EDGE/GSM	Optional, 4G LTE, HSPA+/HSPA/UMTS, EDGE/GSM	A2DP, AVRCP, DI, HID, HOGP, HSP, OPP, PAN	3G Opt for HSPA+/WCDMA/EDGE/GPRS/GSM	UMTS - 3G	3G GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA	GSM/GPRS/EDGE 850/900/1800/1900 MHz/UMTS (optional)	4G LTE (Optional)	Global LTE with HSPA+
GPS		Assisted GPS	Assisted GPS	GPS, GLONASS		3.5G for mobile connectivity (Optional)	Optional supporting RTCM2.3 and RTCM3.0	Yes + Digital compass	Dedicated, Standard, 2.5m Accuracy	Integrated
Imager		No	No	No	Option 1D /2D	No	Option 1D /2D	1D / 2D	1D/2D Barcode Scanner (optional)	Expansion pack accessory
Camera		Front: 2MP. Rear: 5MP with LED. Webcam	Front: 2MP. Rear: 5MP with LED. Webcam	3.1MP rear, 1.2MP front	Option 5MP	5MP 5MP LED Flash (Rear) 1.3MP (Front)	2MP front, 8MP rear	2.0 MP Front, 5.0 MP Rear	2.0 MP Front, 5.0 MP Rear	2.0 MP Front, 8.0 MP Rear
Keypads		Virtual	Virtual	Capacitive touch	Capacitive touch	Capacitive touch	Capacitive touch	T34 numeric and function, capacitive touch screen	10-Finger Multi-Touch, Glove Touch	Capacitive 10 point multi-touch
Batteries		14.8-watt-hour(4,000mAh) lithium-polymer	22.2-watt-hour(6,000mAh) lithium-polymer	4,450mAh (User-replaceable)	Li-ion 3.7V, 4000mAh	Lithium-Polymer 3850mAh	3.7V, 7000mAh	3.7V @5000mAh Li-Polymer	39.2 Whr, Single Battery	5900 mAh rechargeable Smart Li-Ion
Dimensions (mm)		198 x 125 x 13.5	262 x 178.2 x 14.8	126.2 x 213.1 x 9.75	133 x 210 x 18	132 x 220 x 17	160 x 190 x 20 mm	TBA	281 x 180 x 22	8.3": 228 x 150 x 12.5 10.1": 269 x 181 x 12.5
Weight		462g	757g	393g	0.5 kg	0.58Kg	750g	TBA	1.09 kg	8.3": 555 g; 10.1": 750 g
Display		7" LED-backlit widescreen	10.1-inch LED-backlit widescreen	8" WXGA(1280 x 800) TFT LCD	7" LED-backlight	7" LED-backlight	7" Sunlight Readable	7" LCD	10.1" WXGA	21 cm and 25.6 cm
RFID				No	Optional HF/RFID 13.56MHz reader	No	Optional HF/RFID	Optional		
Connectors		1 Micro HDMI	1 Micro HDMI	USB 2.0 High Speed, BT 4.0 BLE, WiFi 802.11 a/b/g/n, NFC	USB 2.0; mini USB (with OTG function); Headphone Out (2.5mm); DC-in; Micro-SD Slot up to 32GB	USB 2.0 Mini B; Type A USB Host. 3.5mm Headphone with Mic-in. Internal Mic; Built in speaker; HDMI Out	Micro USB, Headphone out, DC in, SD slot	TBA	DC Power; 2 x USB 3.0; Micro SDXC; Micro HDMI-out; Micro SIM Card Reader; Headphones/Speaker Mini-Jack Stereo, Smart Phone Headphone Compatible	USB 3.0; HDMI; USB 2.0; Audio jack
Notes										