










		Casio	CipherLab	Datalogic			Handheld		
		IT-G400	RS 30	DL -Axist™	Joya Touch™ A6	Skorpio™ X4	Nautiz X1	Nautiz X4	Nautiz X8
									
Operating System		Android 6.0.1 with GMS	Android 4.4	Android 4.4.4	Google Android 6.0 Marshmallow (field upgradeable to Android 7.1 Nougat)	Android v4.4 or Windows Embedded Compact 7	Android 4.0 (Ice Cream Sandwich) or Windows Embedded Handheld 6.5	Windows® Embedded Handheld 6.5 Professional. Android 4.2.2	Windows® Embedded Handheld 6.5.3 Android 4.2.2
Storage		2GB	8GB Flash / 1GB RAM	1GB RAM	2 GB/ 16GB Flash	1GB / 8GB Flash	1 GB RAM/4 GB Flash	512 MB RAM/1 GB Flash	1 GB RAM/4 GB INAND Flash
Processor		ARM® Cortex®-A53, 1.2 GHz	Cortex 1.3 GHz Quad Core	OMAP 4430 @ 1 GHz Dual Core	Qualcomm Snapdragon Quadcore 1 GHz	Ti OMAP4 @ 1 GHz	Texas Instruments OMAP 4430 1 GHz dual-core	Texas Instruments AM3715 1 GHz	Texas Instruments 4470 dual-core @ 1.5GHz
Memory	RAM	2GB	1GB	1GB	2GB	1GB	1 GB	512 MB	1GB
	ROM	16GB	8GB	8GB	16GB Flash	8GB Flash	4GB	1GB	4GB
IO interface		USB, SDHC, SIM	2 SIM slots and 1 SAM slot. Micro SD card with SDHC (up to 32GB)	Micro-USB: High Speed USB 2.0 Host and Client; Ethernet	Micro-USB 2 SDXC card slot (not user accessible)	SDHC	MicroSD, SDHC	SIM, MicroSD/MicroSDHC (user accessible)	SIM (user accessible) MicroSD/MicroSDHC slot
Drop Spec		1.5m	4ft	6ft	4ft	6ft	4ft	4ft	4ft
Ingress Protection		IP65	IP54	IP67	N/A	IP64	IP67	IP65	IP67
WLAN		802.11 a/b/g/n	802.11 b/g/n	802.11 a/b/g/n MIMO+	802.11 a/b/g/n	802.11a/b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
WWAN	2G	LTE FDD&TDD, WCDMA, EGPRS (EDGE), GPRS, GSM. Model dependent	GSM/GPRS/EDGE/WCDMA/HSDPA /HSUPA/HSPA+GSM/GPRS/EDGE; UMTS/HSDPA/HSUPA				GSM/GPRS/EDGE, UMTS/HSPA+ or CDMA EV-DO Rev. A (800 MHz, 1900 MHz)	3.8G GSM HSPA+/HSUPA or CDMA EVDO Rev. A	
	3G			3G/4G (HSPA+): 850/900/1800/1900/2100				3.8G GSM HSPA+/HSUPA or CDMA EVDO Rev. A	Voice and data, 3.8G GSM. HSPA+/HSUPA or CDMA EVDO Rev. A
	4G			See above					
GPS		Integrated	Integrated with A-GPS ready	Integrated with A-GPS			Integrated u-blox®, WAAS/EGNOS/MSAScapable, G-Sensor, E-Compass	Integrated with u-blox®	Integrated with stand-alone u-blox® GPS
Imager		1D / 2D	Linear / Laser / 2D	1D / 2D / Postal / Stacked	1D/2D/POSTAL / DIGITAL WATERMARKS	1D / 2D / Postal / GS1 Composite	No	1D Laser or 2D Imager	No
Camera		2MP front, 8MP back	8MP with user-controllable flash	5MP with user-controllable flash			5MP	5MP	8MP rear
Keypads		Touchscreen	Capacitive touch with fingertip	Physical: Home/Scan and 2 side scan keys. Power / Volume/ 3 programmable. Touchscreen	Capacitive, multi-touch	28 numeric, 38 functional or 50 Alphanumeric	Touchscreen	Resistive Touch	Numeric with 3 programmable function keys
Batteries		3.85 V li-ion	3.7V 2500 mAh Li-ion	3.8 V; 3200 mAh or 6400 Li-ion	Wireless charging	Li-Ion, 3.7V, 3000mAh	1530 mAh Li-Ion	Li-ion rechargeable 4000 mAh	Li-Ion, 3.7V 5200mAh
Dimensions		82 x 158 x 24	155 x 80 x 17.3 mm	157 x 80 x 19mm	Pistol-Grip: 145 x 77 x 116	193 x 76 x 42	125 x 65 x 15mm	156 x 74 x 25.5	190.9 x 79.7 x 34.6 mm
Weight		325g	260g with battery	350.0 g	Pistol-Grip: 305.0 g	up to 516g	180g	330g	490g
Display		5" TFT LCD	4.7" qHD 540 (W) x 960 (H)	5" TFT HD resolution 720 x 1280	4.3" full touch TFT-LCD	3.2" TFT	4" WVGA	3.5" VGA High Brightness	4.7" FWVGA
RFID		NFC. ISO 14443 type A/B. ISO 15693, I-CODE, SLI	HF RFID 13.56 MHz ISO14443A, ISO14443B, and ISO15693	NFC				No	No

		Honeywell				Janam			
		CN51	Dolphin CT50	Dolphin 70E Black	Dolphin 75e	ScanPal EDA50	XM5	XM 70	XT2
									
Operating System		Windows Handheld v6.5 or Android 6.0 Marshmallow with GMS	Windows 10 IoT Mob Ent, Android 6.0 Marshmallow	Windows® Embedded Handheld 6.5; Android 4.0	Windows 10 IoT Mobile Ent., Android 6.0 Marshmallow	Android 4.4.4	Android 4.2 or Microsoft Windows Embedded Handheld 6.5	Android 4.1.2 or Microsoft Windows Mobile 6.5	Android 5.x Lollipop or Windows 10
Storage		1GB	2GB	512MB	2GB	2GB	512MB	1GB SDRAM	1GB or 8GB
Processor		Texas 1.5 GHz OMAP 4470 dual core	2.2GHz Qualcomm Snapdragon 801 Quad	1GHz Single Core T1 OMAP	2.26GHz quad core Qualcomm	Qualcomm Snapdragon 410 Quad	ARM Cortex-A8 @ 1GHz	ARM Cortex-A8 CPU @1GHz	Quad-core Qualcomm MSM8916 CPU @1.2GHz
Memory	RAM	1GB	2GB	512MB	2GB	2 GB	512MB	1GB SDRAM	1GB or 8GB (WLAN)
	ROM	16GB	16GB Flash	1GB	16GB Flash	8GB Flash	1GB	4GB NAND	2GB/16GB (WWAN)
IO interface		SD	Micro	Micro SD	Micro SD, Micro USB	MicroSDHC (up to 32 GB)	Micro SD	Micro SD	USB 2.0
Drop Spec		5ft	8ft	4ft	4ft	4ft	5ft	4ft	5 ft
Ingress Protection		IP64	IP67	IP54 or IP67	IP67	IP54	IP65	IP54	IP67
WLAN		802.11 a/b/g/n	802.11 b/g/n/ac	IEEE 802.11 a/b/g/n	IEEE 802.11 a/b/g/n/ac	802.11 a/b/g/n radio	802.11a/b/g/n	802.11a/b/g/n	802.11a/b/g/n
WWAN	2G				No WWAN configuration	GSM & EDGE: Band 3/ Band 8; WCDMA: Band 1/Band 8; Non-GCF	UMTS/HSPA+/HSDPA/HSUPA/GSM	Authentication: EAP or PSK. Encryption: WPA2, WPA, WEP - 40 bit and 128-bit keys	EDGE/GPRS/GSM; WCDMA; LTE
	3G	UMTS / HSPA+ / GSM/GPRS/EDGE	Quad (Bands 1, 2, 5, 8)	HSPA+ -3.9G			UMTS/HSPA+/HSDPA/HSUPA/GSM		
	4G		Quad (Bands 2, 4, 5, 17)						
GPS		Integrated	GNSS Receiver and GLONASS	Yes	No		U-Blox GPS and Assisted GPS	N/A	Qualcomm® IZat™
Imager		2D / ScanNGo	1D / 2D	1D / 2D	1D, 2D	Hi2D Imager	Choice of 1D/2D imager or 1D laser scanner	1D, 2D	1D, 2D
Camera		5MP Optional	8MP	5MP	8MP	5MP	5MP	N/A	8.0MP rear, 2.0MP front
Keypads		(27 Key) Numeric or (43 Key) QWERTY	Side scan triggers, volume up/dn, camera, power	Dedicated scan, 4 programmable, volume, side scan, Virtual Keypad	Multi-touch	Multi-touch capacitive	Resistive touch	Numeric or PDA	Capacitive touch
Batteries		3.7V, 3920 mAh	Li-Ion, 3.6V 4040mAh	Li-ion 3.7 V, 1670mAh (stndrd) 3340mAh (Ext)	Li-ion 3.7 V, 1670mAh (stndrd) 3340mAh (Ext)	Li-Ion, 3.8V, 4000mAh	Li-ion 4000mAh	2400mAh or 4000mAh Li-Ion	Li-Ion 3000mAh (4000mAh opt.)
Dimensions mm		164 x 74 x 28	160 x 82.5 x 19	73 x 134 x 18	134 x 73 x 18 stndrd	153.5 x 78.9 x 18	156.9 x 75.6 x 25.8	30.5 x 79 x 146	155 x 83 x 24
Weight		350 g	342g	204g (stndrd)	204g stndrd	270 g	305g	279g	279g (293g inc MMR)
Display		101.6mm	4.7"	4.3"	4.3" WVGA	5"	3.5" TFT VGA	3.5" Color TFT	5.0" HD
RFID				No	No		Yes	Yes	Yes

		M3	Newland			Opticom		Pideon			
		SM15X	MT65 Beluga III	MT90 Orca	Symphone N7000R-II	H-28	H27	BiP-600	BP30	BM180	
											
Operating System		Android 7.1 (Android 8.x is scheduled)	Android 7.0 (64-bit)	Android 5.1 (64-bit)	Android 7.0	Android 6.0.1	Android 4.2.2	Android 2.3	Android 4.2.Windows Embedded 8 Handheld	Android 4.2.Windows Embedded 8 Handheld	
Storage		4GB	2GB	2GB	3GB	EMMC: 16GB	8G	Up to 32GB with Micro SD	1GB	1GB	
Processor		2.2 GHz Octa Core	1.3GHz quad-core 64-bit	1.3GHz quad-core 64-bit	1.45GHz quad-core	Qualcomm Snapdragon 617 A53 Octa-core	Qualcomm MSM8960 Dual core Krait 1.5GHz	PXA 320, 806MHz	Dual Core 1.GHz	Dual Core 1.5GHz	
Memory	RAM	4GB	2GB	2GB	3GB	RAM: LPDDR3 2GB	DDR2 1GB	256MB	1GB	1GB	
	ROM	32GB	16GB	16GB	32GB		up to 32GB	512MB	8GB	8GB	
IO interface		Mico USB, Micro SD	Micro USB 2.0	Micro USB 2.0 OTG	Micro USB; Dual SIM support; T-flash card jack; 3.5mm earphone	MicroSD, Simcard(optional)	Micro SD	Micro SD ,RS-232C, USB 2.0 Host & Client, Ethernet via cradle	Micro USB	Micro USB	
Drop Spec		1.2m / 1.5m (with protector)	1.2m	1.5m	1.5m	5ft	5ft	6ft	6ft	4ft	
Ingress Protection		IP65	IP65	MT90 Orca: IP65 / MT90 Orca Pro: IP67	IP67	IP67	IP54	IP65	IP67	IP67	
WLAN		802.11 a/b/g/n/ac	802.11 a/b/g/n	802.11 a/b/g/n	802.11 a/b/g/n	802.11 a/b/g/n/ac/r	802.11 a/b/g/n/ac	IEEE 802.11b/g, a/b/g (opt)	8.2.11 a/b/g/n	8.2.11 a/b/g/n	
WWAN	2G	GSM/GPRS/EDGE(850/900/1800 MHz)	GSM/GPRS/EDGE: B2, B3, B5, B8 (850/900/1800/1900MHz)	GSM/GPRS/EDGE	4G: GSM(Band 3/8), WCDMA (Band 1/8), CDMA1X, EVDO(Band BC0) TD-SCDMA(Band 34/39), LTE FDD (BAND 1/3/7/17) LTE TDD (BAND 38/39/40/41)	WCDMA, GSM, TDD LTE, FDD TLE	850/900/1800/1900	GSM/GPRS/eGPRS(850, 900, 1800, 1900MHz)			
	3G	3.8G UMTS/HSPA+(850/2100 MHz)	WCDMA (B1, B2, B5, B8); CDMA2000 1X/ EV-DO Rev. A (BC0); TD-SCDMA (B34, B39)	WCDMA (B1, B8); CDMA2000 1X/ EV-DO Rev. A (BC0); TD-SCDMA (B34, B39)				850, 900, 1700, 1900, 2100	UMTS/HSDPA(850, 1900, 2100MHz)	Optional HSPA+/HSPA/UMTS, EDGE/GSM	Optional HSPA+/HSPA/UMTS, EDGE/GSM
	4G	FDD LTE (850 / 900 / 1800 / 2100/ 2600 MHz)	TD-LTE (B38, B39, B40, B41) FDD-LTE (B1, B3, B7, B20)	TD-LTE (B38, B39, B40, B41) FDD-LTE (B1, B3)				4G LTE EU			
GPS		A-GPS, GLONASS, BEIDOU	Integrated	GPS (AGPS), Beidou	GPS/BeiDou system/GLONASS	GPS/GLONASS	Integrated	AGPS and DGPS	Integrated AGPS	Integrated AGPS	
Imager		1D Laser, 2D Imager	1D / 2D	1D / 2D	1D / 2D	1D, 2D, Postal	1D, 2D	1D laser / 2D Imager	Optional 2D	Optional 2D	
Camera		5MP Front, 16MP Rear	8MP	8MP	13MP front; 2MP rear	5MP front, 16MP Rear	5 MP	3MP LED Flash	8MP Rear, 1.3MP Front	8MP Rear, 1.3MP Front	
Keypads		Wet-touch / Glove-touch / Pen touch	30 keys (side keys included). Capacitive Touch	10 keys (side keys included)	Capacitive Touch	1 powe, 2 volume, 2 (programmable) scan keys, 2 function, 3 OS keys	Touchscreen	QWERTY key & Touchscreen	Touchscreen	Touchscreen	
Batteries		Li-ion 3.8V 4,100mAh, Extended: 3.8V 6,150mAh	3.7V, 3700mAh	3.8V, 4500mAh	5200mAh	Lithium-Ion 3.7v 2960mAh (Standard),	Li-ion 3.7V 2860mAh	4,400mAh, Li-ion Smart	3.7V Li-Ion 4500 mAh	3.7V Li-Ion 3000 mAh	
Dimensions mm		76.4 x 154.8 x 21.6	166 x 73 x 26	155 x 78.5 x 20.5	155 x 80 x 17	77 x 158 x 16.9	77 x 147 x 19	80 x 160 x 35.5mm	78 x 158.3 x 22.5	78 x 152 x 16.7	
Weight		Stndrd : 280g , Ext : 340g	330g (inc battery)	260g (inc battery)	288g	308 g (inc battery)	244 g	407g	361g	261g	
Display		5" HD	4" WVGA	5" Capacitive Touch	5.0" HD	5"	4.3"	480 x 640 3.5 inch	5"	5"	
RFID		Yes	13.56MHz	13.56MHz				Yes	ISO1443A&B, ISO15693	ISO1443A&B, ISO15693	

		Seals	Panasonic	Toughshield		Trimble		
		TS3	Toughbook FZ-T1	R-500	T700	Trimble TDC100	Trimble Juno T41	Trimble Juno 5
								
Operating System		Android 2.3.6	Android™ 8.1	Android OS	Android 4.2.2 Jelly Bean	Android® 6.0 (Marshmallow)	Android 4.1 "Jelly Bean"	Android 4.1 "Jelly Bean"
Storage		512MB	16 GB		16GB	2GB	512MB	256MB (5B),512MB (5D)
Processor			Qualcomm® APQ8009 Quad		MTK6589 Quad Core @ 1.2GHz	1.2 GHz Qualcomm™	800 MHz or 1 GHz, Texas Instruments DM3730	T1 DM3730 @ 800MHz (Juno 5B) or 1GHz (juno 5D)
Memory	RAM	512MB	2 GB		16GB	2GB SDRAM	512MB	256MB (5B),512MB (5D)
	ROM	512MB	16 GB eMMC		1GB	16 GB (4G) and 8 GB (Wi-Fi model)	8, 16 or 32 GB	8GB (5B), 16 (5D)
IO interface			Micro SDXC		Micro SD	MicroSDHC	Micro SD	Micro
Drop Spec			5ft		3.3ft	4ft	4ft	4ft
Ingress Protection		IP68	IP68		IP68	IP67	IP65	IP65
WLAN		IEEE 802.11b/g	a/b/g/n/d/h/i/r			802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
WWAN	2G			GSM Quadband			UMTS / HSPA+, GSM / GPRS / EDGE	UMTS / HSPA+, GSM / GPRS / EDGE
	3G	HSDPA/WCDMA, 900/2100Mhz		HSDPA 900 / 2100				
	4G		LTE, HSPA+, UMTS, EDGE, GPRS, GSM		4.0 (LE) WCDMA:2100/900/1900MHz. GSM: 850/900/1800/1900MHz	GSM, GPRS, EDGE, UMTS, CDMA, WCDMA, HSPA, TD-SCDMA, LTE- FDD, LTE-TDD) (N/A on Wi-Fi)		
GPS		GPRS	Integrated	GPRS	A-GPS	GPS L1 C/A	GPS/SBAS	Yes
Imager			Integrated 1D/2D		1D, 2D		1D, 2D	
Camera		5MP Flash	8 MP rear	5MP	8MP rear,2MP front	13MP (4G);8PM (Wi-Fi)	8MP Flash	8MP
Keypads		Touchscreen	Multi touch	Touchscreen	Touchscreen	Multi touch	Touchscreen	Touchscreen
Batteries		Li-Ion 1780 mAh	Li-ion 3200 mAh		6000mAh Li-Ion	3100mAh (Wi-Fi);4800mAh (4G)	Lithium-ion 3.3Ah	Li-Ion 3.7V, 3300 mAh
Dimensions mm		125 x 65 x 17.4	75 x 154 x 13.1		212.5 x 135.5 x 19.8	164 x 82 x 14.6	155 x 82 x 25mm	155 x 82 x 25
Weight		209g	240g		610g	310g	0.4kg	0.4kg
Display		3.5"	5" HD		7" TFT	5.3"	4.3"	4.3" WVGA
RFID							865–868 MHz or 902–928 MHz	865–868 MHz or 902–928 MHz

		Zebra							
		TC20	TC51	TC55	TC70	TC75	MC40	MC67	TC8000 Touch
									
Operating System		Android Nougat 7.X	Android 6.0 Marshmallow	Android 4.1.2; Android 4.4.31 with Mobility Extension	TC70: Android 5.1 Lollipop TC70x: Android 6.0 Marshmallow	TC75: Android 5.1 Lollipop TC75x: 1.8 GHz hex core 64 bit	Android 5.1 Lollipop	Android Jelly Bean 4.1 or Android KitKat 4.4	Android AOSP 4.4.3 (KitKat) with Mobility Extensions (Mx)
Storage		2GB	2 GB	1 GB RAM/8 GB Flash	TC70:1GB. 70x:2GB	TC75:1GB. 75x:2GB	1GB	1 GB RAM/8 GB Flash	1GB
Processor		QCOMM MRM8937® 64-bit 8-Core, ARM® Cortex A53 1.4GHz	Snapdragon 650 64-bit hexa-core 1.8GHz ARM Cortex A72	Dual core 1.5GHz	TC70: Dual Core 1.7GHz TC70x: 1.8 GHz hex core 64 bit	TC75: Dual Core 1.7GHz TC75x: 1.8 GHz hex core 64 bi	1 GHz OMAP 4 dual core	Premium models: Dual core 1GHz OMAP 4. Base Dual Core 800 MHz OMAP 4	Dual core 1.7 GHz
Memory	RAM	2GB	2GB	1GB	TC70:1GB. TC70x:2GB	TC75:1GB. TC750x:2GB	1GB	1GB	1GB
	ROM	16GB Flash	4GB	8GB Flash	TC70:8GB. TC70x:16GB	TC75:8GB. TC75x:16GB	8GB	8GB Flash	4GB / 8GB
IO interface		Micro SD	MicroSD	Micro SD	32GB Micro, SDHC and SDXC support	MicroSD up to 32GB SDHC and up to 64GB SDXC	Micro SD	Micro SD	Micro SD
Drop Spec		4ft	4ft (5ft with rugged boot)	4ft	6ft	6ft	4ft	1.6ft	8ft
Ingress Protection		IP54		IP67	IP67	IP67	IP54	IP65 & IP67	IP65
WLAN		802.11 a/b/g/n/ad/d/h/i/r	802.11 a/b/g/n/ac/d/h/i/r	802.11a/b/g/n	8.2.11 a/b/g/n/d/h/i	802.11a/b/g/n/d/h/i/k/r	802.11a/b/g/n	802.11a/b/g/n	802.11a/b/g/n/d/h/i
WWAN	2G	Worldwide: LTE:700,800/850/900/1800/2100/2600 (FDD 28,20,5,8,3,1,7); UMTS/HSPA/HSPA+: 850/900/1900/2100; GSM/GPRS/EDGE: 850/900/1800/1900	Worldwide: HSPA+: 900/2100/850/1900 MHz EDGE/ GPRS/GSM: 850/900/1800/1900 MHz		Worldwide: LTE: 800/850/900/1800/2100/2600 (FDD 20,5,8,3,1,7) UMTS/HSPA/HSPA+: 850/900/ 1900/2100 GSM/GPRS/EDGE: 850/900/1800/1900			4G HSPA+	
	3G								
	4G								
GPS			TC56 only	Assisted, GLONASS		Integrated	No	Yes	No
Imager		1D, 2D	1D, 2D	1D, 2D	1D and 2D	1D and 2D		2D Imager	1D, 2D
Camera		8MP rear	13MP rear	8MP	8MP Rear, 1.3MP Front	8MP Rear, 1.3MP Front	8MP rear	8MP	8MP autofocus
Keypads		All-touch or touch and keyboard	Touchscreen	Capacitive touch	Touchscreen	Touchscreen		Numeric, QWERTY, DSD	On-screen
Batteries		3000mAh Li-Ion	Li-ion 4300 mAh	Li-Ion 2940 mAh standard	Li-Ion 3.7 V, 4620 mAh	Li-Ion 3.7 V, 4620 mAh	Li-ion 3.7V, 2680 mAh	Li-ion 3.7V, 3600 mAh	Li-Ion 6700 mAh
Dimensions mm		All-touch 134 x 73.1 x 16. With keyboard: 164 x 73.1 x 16	155 x 75.5 x 18.6	137 x 69 x 15.9	161 x 84 x 28 mm	161 x 84 x 28 mm	144 x 72.8 x 31.8	77 x 162 x 33.5	233 x 76 x 64
Weight		All-touch 195g. With keyboard 215g.	249g with battery	220g standard	376g	376g	266g	385g	490 g; 500g
Display		4.3" WVGA	5" HD	4.3" WVGA	4.7"	4.7"	4.3" capacitive	3.5" VGA	4" Multi-touch
RFID		Yes							

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