

2024 LandMark Spatial Solutions Android Unit Matrix

9/16/2024

	 Samsung Galaxy Tab Active 5	 Handhelds Nautiz X6	Handhelds RT8	Handhelds Nautiz X81	Juniper Systems Archer 4	 Juniper Systems Mesa 3 Geo	Trimble TDC6	Trimble TSC5
Pros:	Good GPS, rugged, includes special stylus. Stylus-only mode in MobileMap. Cheapest.	Phablet size. Rugged, great GPS, 15 hour battery, and great price.	Great screen, processor, and GPS	Numeric keypad	Exceptional in All Aspects! Optional GNSS Pod for submeter accuracy for \$850 more.	Fastest Processor, most memory and RAM. Most rugged and best warranty	Fast Processor, Speaker	Full alpha-numeric backlit keyboard, Speaker, Optional Empower GPS, Barcode/RFID Scanner
Cons:	Battery & GPS not as good as other units. Not as rugged.		Little heavier than others like it			Less Accurate GPS		
Price:	\$510 Wifi or \$615 LTE	\$1,099	\$1,199	\$1,399	\$1600 with 8300 mAh battery	\$1,675	\$1,995	\$3040 Wifi or \$4515 LTE
Android Version:	Android 14	Android 11	Android 11	Android 12	Android 14 (update to ver 18)	Android 11	Android 12 - 14	Android 13
Processor/Chipset:	Octa-core 2.4/2GHz Samsung Exynos 9810	2.2 Qualcomm Snapdragon 626 MSM8953 Pro, Octa-core	2.0 Qualcomm Snapdragon 625 MSM8953 Pro, Octa-core	MediaTek i350, 4 cores 2.0 GHz	Qualcomm QCM4490 (Released Fall 2022)	Qualcomm Snapdragon Octo-core K70	2.7 GHz Qualcomm 6490 - Octa-core 64 bit	2.2 GHz Qualcomm SDA600
Google Mobile Certified:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Internal Memory:	128 GB	64 GB	64 GB	64 GB	128 GB	64 GB eMMC Flash	64 GB	64 GB eMMC Flash
Additional memory:	MicroSD Card up to 1 TB	MicroSD Card up to 128 GB	MicroSD Card up to 128 GB	MicroSD Card up to 128 GB	MicroSD Card up to 512 GB	MicroSD Card up to 1 TB	MicroSD Card up to 256 GB	NA
RAM:	6 GB or 8 GB	4 GB	4 GB	4 GB	8 GB	6 GB LPDDR4x	6 GB	4 GB LPD DR4X
Display Size/Type:	8.0" WXGA TFT (1920 x 1200) 16:10 ratio (~283 ppi density) Gorilla Glass 5	6" Multi-Touch Sunlight Readable (1920 x 1080)	8" Multi-Touch Sunlight Readable (1920 x 1080)	4.8" capacitive multi-touch, 720x1280 pixels, Sunlight readable, Glove/rain mode	6.3" FHD 1080P, 500 Nits, Glove + Wet Finger Touch Profiles	7" WXGA (1280 x 800), High-Vis backlit LCD, Qualcomm® Adreno™ 512 GPU, Chemically strengthened Dragontrail™ High Ion-Exchange	6.3" FDH+ (2160 x 1080) 20:9 ratio Gorilla Glass 3 + Glove and wet finger compatibility	5" Landscape HD (1280 x 720) 300 DPI transfective TFT, sunlight readable, multi-touch with multi-modes
Rear Camera:	13 MP AF + 5.0MP, Flash	13 megapixel camera with autofocus and LED flash	13 megapixel camera with autofocus and LED flash	13 megapixel camera with autofocus and LED flash	48MP	16 MP with LED flash	16 megapixel camera with autofocus and LED flash	13MP with LED flash
Front Camera:	5 MP	5 MP	5 MP	5 MP	16MP	2 MP	5 MP	5 MP
IP Rating:	IP 68 ?	IP 67	IP 67	IP 67	IP 68	IP 68	IP 67/IP 65	IP 65
Standard Warranty:	1 Year	1 Year	1 Year	1 Year	2 Years	2 years	1 Year	1 Year
Extended Warranty:	Up to 4 years	Up to 5 Years	Up to 5 Years	Up to 5 Years	Up to 5 Years	Up to 5 Years		
Battery	5050 mAh	8000 mAh/30.4 Wh	3.8 V/8200 mAh/31.2 Wh	3.6V 6900 mAh (25 Wh)	8300 mAh	43.2 Wh	5100 mAh	4530 mAh
AC charge time:	Fast Charging	4 hours	4 hours	2 hours		2-4 hours	4 hours	3.5 hours
Battery life:	8 Hours	15 hours		12 hours	18-20 hours + hot swappable	10-12 hours	5-8 hours	16-18 hours
GPS Receiver Type:	GPS, Glonass, Beidou, Galileo, QZSS	UBLOX GNSS Neo -M8T GPS/GLONASS/Galileo/BeiDou	UBLOX GNSS GPS/GLONASS/Galileo/BeiDou	UBLOX NEO-M8U GNSS GPS/GLONASS/Galileo/BeiDou/QZSS, SBAS	A-GPS/GPS/Glonass/Galileo/Beidou Dual L1/L5 Receiver	Qualcomm SDR660 GNSS receiver and integrated antenna; GPS, GLONASS, Galileo	GPS, Glonass, Beidou, Galileo, QZSS- L1 + L5	Sierra Wireless EM7565; L1 C/A GPS/GLONASS/Beidou/Galileo/QZSS
SBAS:	WAAS	WAAS, EGNOS	WAAS, BDS	WAAS	WAAS, EGNOS	WAAS, EGNOS	WAAS	WAAS
Accuracy (Autonomous)	1-3 meters	1-3 meters	1-3 meters	1-3 meters		2-4 meters		
Accuracy with SBAS (Open Sky):	1-3 meters	< 2 meters	< 2 meters	< 2 meters		2-4 meters		
Sensors:	Accelerometer, Fingerprint Sensor, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Proximity Sensor, RGB Light Sensor	Accelerometer, Sensor, Gyro Sensor, Compass, Proximity Sensor, RGB Light Sensor, Pressure; Optional barcode imager and UHF RFID	Accelerometer, Sensor, Gyro Sensor, Compass, Proximity Sensor, RGB Light Sensor, Pressure; Optional barcode imager and UHF RFID	Accelerometer, Sensor, Gyro Sensor, Compass, Proximity Sensor, RGB Light Sensor, Pressure	Ambient Light, Accelerometer, Magnetometer, Gyroscope, Proximeter, Barometer, Barcode (SE4107), Ublox F9P GNSS	Ambient Light, Compass, Accelerometer, Gyroscope, Optional barcode imager and UHF RFID	E Compass, G Sensor, Light, Proximity, Gyroscope	E Compass, G Sensor, Light sensor, Gyro Sensor
Cellular Capability:	LTE Cat 6 - AT&T, Verizon, T-Mobile	4G/LTE (1,2,3,4,5,7,8,17,20,28,38,39,40,41)	4G/LTE (1,2,3,4,5,7,8,17,20,28,38,39,40,41)	5G- 2,5,7,12,13,14,25,26,29,30,38,41,48,66,70,71,77,78, 4G/LTE - 2,4,5,7,12,13,14,17,25,26,29,30	5G T-Mobile, AT&T, and other global carriers, (still investigating Verizon)	4G LTE multi-carrier capable	2G to 5G LTE	4G LTE
Measurements (in):	5.0 in x 8.5 in x 0.4"	7.5 in x 3.5 in x 0.5 in	9.8 in x 5.7 in x 0.5 in	7.5 in x 3.1 in x 1.3 in	6.9 in x 3.3 in x 0.6 in	8.5 in x 5.4 x 1.4 in	6.8 in x 3.2 in x 0.96 in	11.3 in x 6.9 in x 1.7 in
Weight (oz):	15.3 oz	13.4 oz	22.4 oz	17.3 oz	13.9 oz	24 oz	10.1 oz	2.06 lb
Ports:	USB Type-C 3, 3.5 mm	USB Type-C; Back Connector for Expandability	USB Type-C; Back Connector for Expandability	Fast charging Type-C, OTG, USB A host, RS232/RS422/RS485	USB C OTG, Quick charging capability	USB-C, Optional RS-232, Dock Connector	USB C	USB C
WiFi:	Wifi 6, MIMO	Wi-Fi 802.11 a/b/g/n/ac (2.4GHz+5GHz)	Wi-Fi 802.11 a/b/g/n/ac (2.4GHz+5GHz)	Wi-Fi 802.11 a/b/g/n/ac (2.4GHz+5GHz)	Dual 2.4/5 GHz 802.11 a/b/g/n/ac/ax	Wi-Fi 802.11 a/b/g/n/ac, 2.4 GHz and 5 GHz	Wifi 6E, 2.4 GHz & 5 GHz & 6 GHz	Wifi 6E, 2.4 GHz & 5 GHz & 6 GHz
Security:	Knox 2.8	MaxGo	MaxGo	MaxGo		No	No	TLS 1.3
Bluetooth:	5.0, A2DP, LE	Ver 4.1	Ver 4.1	BT 5.0 LE. Compatible with 2.1 EDR	5.2 and BLE, Class 1.5	Long-Range v5.0 + EDR, Class 1.5 BLE	Ver 5.2, BLE5, Class 1	Ver 5, BLE5, Class 1
Operating Temp.:	-4 to 131 °F	-4 to 131 °F	-4 to 140 °F	-22 to 140 °F		-4 F to 122 F	-4 to 140 °F	-22 to 140 °F