M3 UL20X | UL20F | UL20W

Full Touch Ultra Rugged Computer

- Android 8.1 / 9.0 GMS / 10 GMS
- 2.2GHz Octa core CPU
- Fast charging / Battery Hot Swap

- 2D Imager, Long range Scanner
- 16.0MP Auto Focus Camera

5 inch Full HD Display

With large high visibility color display, Full HD screen enables stable business. UL20 offers crystal 5.0 Inch Corning® Gorilla® Glass on display. UL20F provides Corning® Gorilla® on both display and scanner window.

Long Range Scanner

UL20 Series are equipped with Long range scanner. It is able to read maximum 21.4 meters. (Depends on barcode size.)

IP67 sealing

Device can be used in harsh environments under IP67 dust and water proof.

Angled Scanner (25 degrees)

Tilted scanner helps comfortable aiming without bending wrist while looking at front screen.

6,700mAh Battery use in cold warehouse*

UL20 Series have battery of same capacity; 6,700mAh even in cold warehouse. Because the battery is insulated. Furthermore, the special freezer battery maintains performance in extreme cold warehouse.

Defogging makes vivid window*

UL20F is upgraded as working under -30°C with automatic sensor to control temperature of screen and scanning window. Besides, UL20F provides frozen key and battery working moderately on the low temperature.

(* It applies for UL20F)

Speed is Power
M3 MOBILE

Specification

	UL20X	UL20W	UL20F
DIMENSION (W x H x D)	88.7 mm x 244.75 mm x 46.19 mm		
WEIGHT	530g (2D Scanner), 580g (Long range Scanner)		
DISPLAY	5 in. FHD (Full High Definition) (1920X1080) Outdoor view-able, Frost-free (UL20F)		
TOUCH	Corning Gorilla Glass / Capacitive multi-touch / Glove, Wet, Stylus		
BATTERY	Li-ion 3.6 V 6,700 mAh, designed for high performance in low temperatures (UL20F)		
POWER MANAGEMENT	Fast Charging / Battery Hot Swap		
SIM / SAM	2SIM	N/A	
PHYSICAL KEYS	35-Key Alpha Numeric Function key pad and 6 Side key, (Optional) 28-Key, 53-Key		
PROCESSOR	2.2 GHz Octa-core processor	2.0 GHz Octa-core processor	2.2 GHz Octa-core processor
OS	Android 8.1 / 9.0 GMS / 10 GMS		
MEMORY	4GB RAM, 64GB ROM	2GB RAM, 16GB ROM	4GB RAM, 64GB ROM
INTERFACE	USB 2.0 Client (C type), USB 2.0 Host (A type)		
SENSOR	Light Sensor: Automatically adjusts the brightness of the display Magnetometer sensor: eCompass automatically detects direction and orientation Gyro Sensor, Accelerometers: for X,Y, and Z movement, and gyroscopes for measuring the extent and rate of rotation in space Proximity Sensor: Detect the presence of nearby objects without any physical contact, during a telephone call, proximity sensors play a role in detecting accidental touchscreen taps		
WWAN	GSM : B3, B5, B8 / WCDMA : B1, B5, B8 TDD-LTE : B38, B40, B41/ FDD-LTE : B1, B3, B5, B7, B8, B20	N/A	
WLAN	IEEE 802.11 a/b/g/n/ac/d/e/h/i/k/r/w		
BLUETOOTH	Bluetooth v4.1 LE Class II		
GPS	A-GPS, GLONASS, Beidou, Galileo		N/A
SCANNER	2D Imager Long range (SE4850)		
CAMERA	16.0 MP (REAR) LED Flash		
RFID	NFC (13.56MHz) Peer-to-peer, card reader, card emulation ISO 14443 A / B, ISO 15693		
TEMPERATURE	Operating -20 °C to 60 °C (-4 °F to 140 °F) Storage -30 °C to 80 °C (-22 °F to 176 °F)		Operating -30 °C to 60 °C (-22 °F to 140 °F) Storage -40 °C to 80 °C (-40 °F to 176 °F)
HUMIDITY	0% to 95% non-condensing		Condensing (Condensation-free using internal heaters)
DROP TEST	2.0M		
IP RATING	IP67		
HEATER	N/A		Scanning window heater, LCD Heater

Accessories

2 slot charging cradle

Charging & Ethernet
2 slot cradle

8 slot charging cradle

Charging & Ethernet
8 slot cradle

Trigger Handle

Wire Plate

Vehicle/Forklift Cradle