

# M3 UL20X | UL20F | UL20W

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## 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.

### IP67 sealing

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

### 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.

### Long Range Scanner

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

### Angled Scanner (25 degrees)

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

### 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)

# 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**



**Vehicle/Forklift Cradle**