

# M3 UL20X | UL20F | UL20W

## Full Touch Ultra Rugged Computer



- Android 8.1 & 9.0 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		
MEMORY	4GB RAM, 32GB ROM	2GB RAM, 16GB ROM	4GB RAM, 32GB ROM
INTERFACE	USB 2.0 Client (C type), USB 2.0 Host (A type)		
SENSOR	Accelerometer, Gyro, Ambient light, Proximity, E-compass, Magnetic		
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 2.4 & 5 GHz		
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	N/A	
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

(Appearance can be changed.)



**2 slot charging cradle**  
Charging & Ethernet  
2 slot cradle



**8 slot charging cradle**  
Charging & Ethernet  
8 slot cradle



**Snap on**  
USB Snap on type



**Pistol grip**  
Scanning trigger