M3 UL20 Series

Full Touch Ultra Rugged Computer

Android 8.1
2.2GHz Octa core CPU
Fast charging / Battery Hot Swap
1D / 2D Imager, Long range Scanner
16.0MP Auto Focus Camera

SPEED IS POWER
M3

Full HD Display

With large high visibility color display, Full HD screen enables stable business.That is highly visible both indoors and outdoors.

IP67 sealing, 2.0m drop

IP67 dust / water proof withstands 2.0m drops. Device can be used in harsh environments.

Keypad (35 keys plus Function key)

For maximum efficiency, physical keyboards are available. M3 UL20 includes 35key Alpha Numeric key. Each features an easy-to-use ergonomic design and Function keys are installed for fast operation in the field.

Li-ion, 3.6V, 6,700mAh

The large capacity 6700mAh battery makes it suitable for long shifts where charging of the device is very limited.

Specification

	UL20X	UL20F	UL20W
DIMENSION (W x H x D)	88.7 mm x 244.75 mm x 46.19 mm		
WEIGHT	580 g		
DISPLAY	5 in. FHD (Full High Defini-tion) (1920X1080) Outdoor view-able		
TOUCH	Capacitive touch, Glove / Wet / Pen touch		
BATTERY	Li-ion 3.6 V 6,700 mA		
POWER MANAGEMENT	Fast Charging / Battery Hot Swap		
SIM / SAM	2 SIM	N / A	
PHYSICAL KEYS	35-Key Alpha Numeric+Function key pad and 6 Side key		
PROCESSOR	2.2 GHz Octa-core processor		2.0 GHz Octa-core processor
OS	Android 8.1		
MEMORY	4 GB RAM, 32 GB ROM		2 GB RAM, 16 GB ROM
INTERFACE	USB C type via Snap on, Cradle		
SENSORS	Gyro, Ambient light, Accelerometer, 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 2.4G&5GHz		
BLUETOOTH	Bluetooth Class II 4.1 LE		
GPS	A-GPS, GLONASS, Beidou, Galileo	N / A	
SCANNER	2D Imager (N660X) Long range (SE4850)		
CAMERA	16.0 M (Rear) LED Flash		13.0 M (Rear) LED Flash
RFID	NFC (13.56MHz) Peer-to-peer, card reader, card emulation ISO 14443 A / B, ISO 15693		
TEMPERATURE	Operating -20 ℃ to 60 ℃ (-4 ℉ to 140 ℉) Storage -30 ℃ to 80 ℃ (-22 ℉ to 176 ℉)	Operating -30 ℃ to 60 ℃ (-22 ℉ to 140 ℉) Storage -40 ℃ to 80 ℃ (-40 ℉ to 176 ℉)	Operating -20 ℃ to 60 ℃ (-4 ℉ to 140 ℉) Storage -30 ℃ to 80 ℃ (-22 ℉ to 176 ℉)
HUMIDITY	0% to 95% non-condensing		
DROP TEST	2.0 M		
IP RATING	IP67		

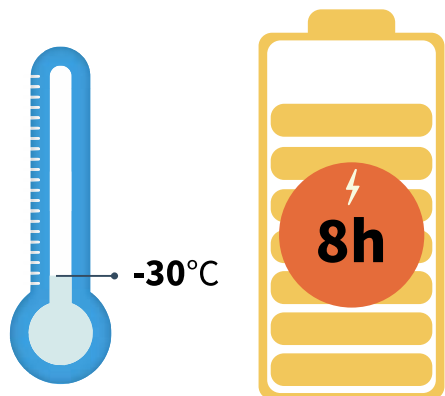# M3 UL20F

High Performance in coldest environments

Defogging makes vivid window

UL20 has automatic sensor to control temperature of screen and scanning window. When the temperature goes down, the sensor is working to keep moderate line which UL20 operates. The module smartly control LCD. Heating LCD stands alone even UL20 is on sleep status. Also, equipped battery endures low temperature.

UL20F Scanning window

-30℃

8h

Endures in low temperature! (It applies for UL20F)

In cold warehouse, LCD and keypad working on the low temperature is essential. UL20 is upgraded as working under the -30℃ by automatically controlling Heating LCD. It provides convenience to the user while reducing battery consumption.

M3 **UL20W**

Support WiFi Only Products

UL20W specializes in indoor working space where Wi-Fi is usually used. Reasonable UL20W will reduce your TCO (Total cost of ownership). Smooth operation indoors has benefit of free compatibility with many kinds of apps. Data communication between co-workers has no barriers if they're connected with Wi-Fi. Wireless communication is fast and stable as much as wired one.

M3 **UL20** Series Accessory

2 slot charging cradle
Charging-only 2 slot cradle

Pistol grip
Scanning trigger

8 slot charging cradle
Charging-only 8 slot cradle

Snap on
USB Snap on type

※ The content is possible to addition or change