



UL20 is a more **stable and reliable mobile computer.** This is the mobile computer you really want for your enterprise business. With the UL20, you can run critical applications with no problems.

The UL20 is the most Advanced enterprise-ready 4G/LTE mobile computer with the highest **CPU(2.2GHz Octa Core)**. Supporting Android 8.1 operating systems, the UL20 mobile computer targets tough environment employees in scanintensive workflows such as transport and logistics, indoor and outdoor warehouse service who want to build a truly automate mobile workspace with the modern conveniences of an all-touch smartphone and physical keypad to speed business agility. It makes reducing total cost of ownership. High end mobile applications can be guaranteed to work well on the UL20. The UL20 mobile computer is designed to support the most advanced connected mobile user experiences, facilitating large file transfers, video streaming and remote access to business applications quickly, so workers can more effectively manage a wide variety of tasks throughout the sales cycle.

Additionally, UL20 mobile computer offers **enough battery life** to last a full shift and beyond, keeping mobile workers always connected to crucial information to packaging, check stock, look up order status or scan items as they are removed for delivery. The battery hot-swap function saves time and avoids rebooting when changing a battery in the field.

The UL20 Series mobile computer offers crystal 5.0 Inch Corning® Gorilla® III Glass Glove and wet touch are basic function.

Great User Interface with Android™

Full HD 5 inch Screen can be possible to manage the touch screen easily. You don't care about mistyping and adjust screen input in UL20. Moreover Big large Keypad helps you can manage the application. For the scanning data capture, wide angled Scanner helps comfortable aiming.



The most reliable enterprise-ready mobile computer.

The UL20 mobile computer delivers real-time connectivity and best-in-class data capture capabilities.

UL20F

An industry-leading Technologies, UL20 is upgraded as working **under the -30°C**, **with Heating LCD and low temperature battery**. Name is UL20F, this will help your business extend.



UL20

				2.2 GHz Octa-core processor
		CPU		(Qualcomm MSM8953 Cortex-A53)
Processor: 2.2 GHz Qualcomm Snapdragon 626 Octa-core	Performance	0:		Android 8.1
(Cortex A-53) and 650MHz GPU		RA		4G LPDDR3 933Mhz
(CONCENTY 33) and 030Minz Of 0		RO	M	32G eMMC
Operating System: Android 8.1		WWAN	DATA	GPRS : Class 12, (DL)85.6/(UL)85.6 kbps EDGE : Class 12, 236.8 / 236.8kpbs HSPA+ : (DL) 42 / (UL) 11.2 Mbps TDD-LTE : Cat4 117 / 30 Mbps FDD-LTE : Cat4 150 / 50 Mbps
Memory: 4GB RAM, 32GB Flash		Frequency		GSM : B3, B5, B8
Lin to 120CP of outanded Micro CD clot				WCDMA : B1, B5, B8 TDD-LTE : B38, B40, B41
Up to 128GB of extended Micro SD slot				FDD-LTE : B1, B3, B5, B7, B8, B20
		WL	AN	IEEE 802.11 a/b/g/n/ac 2.4G&5GHz
Display F O inch in FUD/Full High Definition (1020 v 1090)			1D	1D laser(SE 965)
Display: 5.0 inch in FHD(Full High Definition : 1920 x 1080)		Scanner	2D	2D Imager (N6600)
* Heating LCD is available only UL20F			L Range	SE4850
,		Camera	Pixels	16 M(Rear)
			Flash	LED Flash
Battery: 6,700mA		Sensor		Gyro, Ambient light, Accelerometer, Magnetic
Hot swap function allowing the user can replace battery	Option	GP	PS .	A-GPS, GLONASS, Beidou, Galileo
. ,		Bluet	ooth	Bluetooth Class II 4.1 LE
in the field without system reboot.			Frequency	NFC(13.56MHz)
UL20 can do standby + 200 hours without recharging.		RFID	Туре	Peer-to-peer, card reader, card emulation ISO 14443 A/B, ISO 15693
Touch Panel: Rugged multi-touch capacitive touch panel,		Display	Size	5.0" FHD IPS (1920 x 1080)
		Touch Panel		Capacitive touch, Glove/Wet/Pen
optically bonded for extra durability and better sunlight view		Keypad		35-Key Alpha/Numeric+Function key pad
ability. Automatic detection and configuration utilizing mutual,				and 6 Side key Li-ion 3.6V 6,700mA
self-capacitance modes for water rejection,		Battery	Standard	(Fast Charging, Option: Frozen Pack)
use with many off-the-shelf gloves.		Interface	USB	USB C type via Snap on, Cradle
use with many on the shell gloves.		Extended Slot		Micro SD(up to 128GB) (SDXC/SDHC/SDIO)
		SIM		2 SIM(SIM)
Keypad: 35-Key Alpha/Numeric+Function key pad			Operating	-20°C to 60°C (-4°F to 140°F)
		Temperature	Storage	-40°C to 80°C(-30°F to 176°F)
And 6 Side key	User Environment	Humi		0% to 95% non-condensing
		Drop		2.0M
		Tumble		1M/2000Cycle
Audio: Speaker, PTT support and Bluetooth® wireless headset support.		Vibration		4Gs Peak Sine(5Hz to 2KHz); 0.04g^2/Hz Random(20Hz to 2kHz); 1 hour duration
TOPE TO		Thermal Shock		per axis, 3axis -40°C to 85°C (-40°F to 185°F) rapid transition
Camera: 16.0-megapixel color rear camera with autofocus,		Sealing		IP67
advanced software features for better image quality		ESD T		±15 kV air Discharge and ±8 kV Direct Discharge
		Dimension		88.7mm x 244.75mm x 46.19mm
	Physical	Wei		580g
·		WCI	D	5558

for more information

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Supported Barcode Symbologies of UL20 Series

Parameter	Default
UPC/EAN	
UPC-A	Enable
UPC-E	Enable
UPC-E1	Disable
EAN-8/JAN 8	Enable
EAN-13/JAN 13	Enable
Bookland EAN	Disable
Decode UPC/EAN/JAN Supplementals (2 and 5 digits)	Ignore
User Programmable Supplementals	
Supplemental 1:	
Supplemental 1:	
UPC/EAN/JAN Supplemental Redundancy	10
Decode UPC/EAN/JAN Supplemental AIM ID	Combined
UPC Reduced Quiet Zone	Disable
Transmit UPC-A Check Digit	Enable
Transmit UPC-E Check Digit	Enable
Transmit UPC-E1 Check Digit	Enable
UPC-A Preamble	System Character
UPC-E Preamble	System Character
UPC-E1 Preamble	System Character
Convert UPC-E to A	Disable
Convert UPC-E1 to A	Disable
EAN-8/JAN-8 Extend	Disable
Bookland ISBN Format	ISBN-10
UCC Coupon Extended Code	Disable
Coupon Report	New Coupon Symbol
ISSN EAN	Disable
Code 128	T =
Code 128	Enable
Set Length(s) for Code 128	Any Length
GS1-128 (formerly UCC/EAN-128)	Enable
ISBT 128	Enable
ISBT Concatenation	Disable
Check ISBT Table	Enable
ISBT Concatenation Redundancy	10
Code 128 Reduced Quiet Zone	Disable
Ignore Code 128 <fnc4></fnc4>	Disable
Code 39	rbl.
Code 39	Enable
Trioptic Code 39	Disable
Convert Code 39 to Code 32 (Italian Pharmacy Code)	Disable
Code 32 Prefix	Disable
Set Length(s) for Code 39	2 to 55
Code 39 Check Digit Verification	Disable
Transmit Code 39 Check Digit Code 39 Full ASCII Conversion	Disable Disable
Code 39 Reduced Quiet Zone Code 93	Disable
	Disable
Code 93 Set Length(s) for Code 93	Disable 4 to 55
	4 to 55
Code 11	Dicable
Code 11	Disable 4 to 55
Set Lengths for Code 11	Disable
Code 11 Check Digit Verification	
Transmit Code 11 Check Digit(s)	Disable



Parameter	Default			
Interleaved 2 of 5 (ITF)				
Interleaved 2 of 5 (ITF)	Enable			
Set Lengths for I 2 of 5	14			
1 2 of 5 Check Digit Verification	Disable			
Transmit I 2 of 5 Check Digit	Disable			
Convert I 2 of 5 to EAN 13	Disable			
12 of 5 Security Level	Security Level 1			
12 of 5 Reduced Quiet Zone	Disable			
Discrete 2 of 5 (DTF)	Distroic			
Discrete 2 of 5	Disable			
Set Length(s) for D 2 of 5	12			
Codabar (NW - 7)	12			
Codabar	Disable			
Set Lengths for Codabar	5 to 55			
CLSI Editing	Disable			
NOTIS Editing	Disable			
MSI	Disable			
MSI	Disable			
Set Length(s) for MSI	4 to 55			
MSI Check Digits	One			
Transmit MSI Check Digit	Disable			
MSI Check Digit Algorithm	Mod 10/Mod 10			
Chinese 2 of 5	I			
Chinese 2 of 5	Disable			
Korean 3 of 5	Γ			
Korean 3 of 5	Disable			
Matrix 2 of 5	T			
Matrix 2 of 5	Disable			
Matrix 2 of 5 Lengths	14			
Matrix 2 of 5 Redundancy	Disable			
Matrix 2 of 5 Check Digit	Disable			
Transmit Matrix 2 of 5 Check Digit	Disable			
Inverse 1D	Regular			
Postal Codes				
US Postnet	Enable			
US Planet	Enable			
Transmit US Postal Check Digit	Enable			
UK Postal	Enable			
Transmit UK Postal Check Digit	Enable			
Japan Postal	Enable			
Australia Post	Enable			
Australia Post Format	Auto discriminate			
Netherlands KIX Code	Enable			
USPS 4CB/One Code/Intelligent Mail	Disable			
UPU FICS Postal	Disable			
GS1 DataBar (formerly RSS, Reduced Space Symbology)				
GS1 DataBar-14	Enable			
GS1 DataBar Limited	Disable			
GS1 DataBar Limited Security Level	3			
GS1 DataBar Expanded	Disable			
Convert GS1 DataBar to UPC/EAN	Disable			



Parameter	Default
Composite	
Composite CC-C	Disable
Composite CC-A/B	Disable
Composite TLC-39	Disable
UPC Composite Mode	Never Linked
GS1-128 Emulation Mode for UCC/EAN Composite Codes	Disable
2D Symbologies	
PDF417	Enable
MicroPDF417	Disable
Code 128 Emulation	Disable
Data Matrix	Enable
Data Matrix Inverse	Regular
Decode Mirror Images (Data Matrix Only)	Never
Maxicode	Enable
QR Code	Enable
QR Inverse	Regular
MicroQR	Enable
Aztec	Enable
Aztec Inverse	Regular
Han Xin	Disable
Han Xin Inverse	Regular
Symbology-Specific Security Levels	
Redundancy Level	1
Security Level	1
1D Quiet Zone Level	1
Intercharacter Gap Size	Normal

For downloading supported Barcode Symbologies Please visit

http://itc.m3mobile.net

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 $\frac{\text{http://itc.m3mobile.net/mainpage/list}}{\text{t\&bd}} \frac{\text{ho=202\&gotopage=1\&con=subject\&keyword=\&cmd=conten}}{\text{two no=13\&gubun=\&ino=1\&gbn=3}}$