



# MEMOR™ 20

## TECHNICAL SPECIFICATIONS

### WIRELESS COMMUNICATIONS

<b>Local Area Network (WLAN)</b>	IEEE 802.11 a/b/g/n/ac and 802.11 d/e/h/k/r/v/w; Frequency range: Country dependent, typically 2.4 GHz and 5 GHz bands; 2 x 2 MIMO technology for higher throughput and coverage (Wi-Fi models only)
<b>Personal Area Network (WPAN)</b>	Bluetooth wireless technology v5.0 (Classic Bluetooth wireless technology and BLE)
<b>NFC Communication</b>	Support for the following standards: ISO14443-4 (type-A, type-B); ISO15693; Mifare; Felica
<b>WWAN / Cellular</b>	LTE-Advanced / 4G+; CAT 9; Dual Nano SIM <b>• EMEA and ROW Configuration:</b> GSM: Quad band; WCDMA: B1/2/5/8; FDD_LTE: B1/3/5/7/8/20/28 <b>• North America Configuration (AT&amp;T and Verizon certified):</b> GSM: Quad band; WCDMA: B1/2/4/5/8; FDD_LTE: B1/2/4/5/7/12/13/17/25/26/30; VoLTE enabled

<b>Global Positioning System (GPS)</b>	Integrated Assisted-GPS (A-GPS) Supported Types: GPS, GLONASS, BeiDou
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### DECODING CAPABILITY

<b>1D / Linear Codes</b>	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
<b>2D Codes</b>	Aztec Code, Data Matrix, HanXin Code, MaxiCode, MicroQR Code, QR Code, Dotcode
<b>Postal Codes</b>	Australian Post, Japan Post, KIX Code, PLANET, POSTNET, Royal Mail Code (RM4SCC), UPU FICS, USPS Intelligent Mail
<b>Stacked Codes</b>	Micro-PDF417, PDF417, GS1 DataBar Composites, GS1 DataBar Expanded Stacked, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional
<b>Digital Watermark Codes</b>	Digimarc® Barcode

### ELECTRICAL

<b>Battery</b>	1 piece swappable battery pack with rechargeable Li-Ion batteries; 3.85v; Rated 3,900 mAh, 15 Watt-hours (typical 4,100 mAh); 'SafeSwap' for application data protection
<b>Wireless Charging</b>	WPC Qi EPP compliant; 15W fast charging

### ENVIRONMENTAL

<b>Drop Resistance</b>	Withstands drops from 1.8 m / 6.0 ft onto concrete (with rubber boot); Withstands drops from 1.2 m / 4.0 ft onto concrete (without rubber boot). Tested onto steel / concrete according to IEC 60068-2-32 method 1 and MIL STD 810G Transit drop test.
<b>Tumbles</b>	Withstands 1000 hits from 1 m / 3.3 ft per IEC 600-2-32 with rubber boot; Withstands 600 hits from 0.5 m / 1.6 ft per IEC 60068-2-32 method 1 without rubber boot
<b>Particulate and Water Sealing</b>	IP65 and IP67
<b>Chemical Resistance</b>	Chemical cleanser and industrial oil resistant (both Standard and Healthcare models)
<b>Healthcare Cleanable</b>	Isopropyl Alcohol, Hydrogen Peroxide, Clorox® Bleach; applicable for both the device and docks
<b>Temperature</b>	Operating: -20 to 50 °C / -4 to 122 °F Storage/Transport: -30 to 70 °C / -22 to 158 °F

### INTERFACES

<b>Interfaces</b>	USB-C: High Speed USB 3.1 gen1 Host and Client; Gigabit Ethernet connectivity (via 3-slot dock)
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### SENSORS

<b>Vibration</b>	Software programmable for duration and intensity
<b>Accelerometer</b>	3-Axis accelerometer to detect orientation
<b>Gyroscope</b>	Senses angular velocity
<b>Ambient Light</b>	Auto adjusts display backlight
<b>Proximity</b>	Auto deactivates display when close to face
<b>Biometrics</b>	Capacitive Fingerprint Sensor; 5 fingerprints per user up to 5 users

### PHYSICAL CHARACTERISTICS

<b>Dimensions</b>	17.0 x 7.97 x 1.92 cm / 6.69 x 3.14 x 0.76 in
<b>Primary Display</b>	5.7 inch LTPS in 18:9 format - FHD resolution 1080 x 2160; LED backlight
<b>Secondary Display</b>	Second display on top for enriched Android notifications: 0.7 inch POLED
<b>Keys</b>	Physical Keys: 2 side scan keys; Power On/Off; Volume Up/ Down; 3 Android soft keys; Fingerprint sensor
<b>Touch Panel</b>	Touch Screen: 5 points multi-touch capacitive panel with hardened Gorilla Glass 3; Support for gloves and stylus
<b>Weight</b>	With Battery: 295 g / 10.4 oz

### READING PERFORMANCE

<b>Camera</b>	<b>Rear Camera:</b> Resolution: 13 megapixel; Illumination: User controllable LED flash; Lens: Auto focus <b>Front Camera:</b> Resolution: 8 megapixel; Fixed focus
<b>Scan Engine</b>	<b>Halogen™ DE2102 scan engine:</b> 2D Ultra slim area imager (supports 1D / 2D codes); Datalogic's 'Green Spot' for good-read feedback; Depth of Field: 4 to 90 cm / 1.6 to 35 in depending on bar code density and type; Resolution: Megapixel (1280 x 800 pixels); Illumination: Both White and Red LEDs (for Digimarc); Aiming: 650nm VLD; Field of View: 42°H x 26°V
<b>Print Contrast (Minimum)</b>	25%
<b>Minimum Element Width</b>	1D Linear: 0.0635 mm / 2.5 mils PDF: 0.0762 mm / 3 mils Data Matrix: 0.152 mm / 6 mils

### SAFETY & REGULATORY

<b>Agency Approvals</b>	The product meets necessary safety and regulatory approvals for its intended use.
<b>Environmental Compliance</b>	Complies to EU RoHS

### SOFTWARE

<b>Applications</b>	Datalogic's SoftSpot technology for configurable soft triggers; Supports Datalogic's Queue Busting app; Pre-licensed device and browser lockdown powered by 42Gears; Enterprise class PTT available from Zello
<b>Provisioning</b>	Android Zero-Touch, QR Code enrollment, NFC Bump provisioning
<b>Configuration and Maintenance</b>	Scan2Deploy Studio, DXU, OEMConfig
<b>Software Maintenance</b>	Datalogic Shield: recurring security patches, firmware updates, and OS upgrades.
<b>Development</b>	Java, Cordova and Xamarin SDK available
<b>MDM</b>	SOTI MobiControl, VMWare AirWatch, Ivanti Avalanche, 42Gears SureMDM, Microsoft Intune
<b>Terminal Emulation</b>	StayLinked SmartTE, Ivanti Velocity

### SYSTEM

<b>SIM Slots</b>	Dual SIM Slot: Nano SIM
<b>Memory</b>	System RAM: 4 GB; eMMC Flash: 64 GB
<b>Microprocessor</b>	Qualcomm SD660 Octa-core 2.2 GHz
<b>Operating System</b>	Android v9.0 (Pie) GMS
<b>Real-Time Clock</b>	Time and date stamping under software control

### WARRANTY

<b>Warranty</b>	1-Year Factory Warranty
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## ACCESSORIES



94A150099 Single Slot Dock, Charge only  
94A150100 Locking and USB



94A150103 3-Slot Dock charge only  
94A150104 Locking and Ethernet



94ACC0246 Multi Battery Charger



94A150105 Vehicle Dock



94ACC0253 Attachable Pistol Grip



94ACC0247 Rubber Boot



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