

# MEMOR™ 20

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## MEMOR™ 20 – DARE TO BE THE BEST

Memor 20: the best-in-class PDA born to face the toughest Enterprise challenges. Offered in a slim and compact design, a stunning 5.7" full HD display, and a novel and unique secondary notification display. It incorporates the latest smartphone technologies, combined with high performance 1D/2D barcode scanning and industrial robustness for almost any indoor or outdoor environment.

## TOP PERFORMANCE WHILE EXTREMELY RUGGED

The Memor 20 is powered by the superior Qualcomm Snapdragon SD660 Octa-core platform clocked at 2.2 GHz for top performance in the most demanding applications. It features the user friendly experience of Android™ 9 (Pie) with Google Mobile Services (GMS). Additionally, it has been validated by Google for the 'Android Enterprise Recommended' program for rugged devices.

The Memor 20 is our most rugged PDA designed for the harshest environments, with an IP65 and IP67 sealing rating and 1.8 m / 6.0 ft repeated drops to concrete.

## WIRELESS CHARGING MEETS SWAPPABLE BATTERY

The Memor 20 incorporates Datalogic's industry-first wireless charging system for ultra-reliable contactless charging, thus eliminating the need for cleaning contacts on the device and docks. Moreover, Memor 20 offers a 1-piece swappable battery with Datalogic's patent pending 'SafeSwap™' technology.

## AUTHENTICATION AND SECURITY

Memor 20 offers a front facing combination home button together with Fingerprint sensor for secure authentication. Security and customization are also distinctive features available with its Smart Docks that offer a unique locking function and secure the device to avoid unauthorized use, loss or theft.

## COMMUNICATIONS

The Memor 20 leverages a complete set of embedded wireless technologies for both indoor and outdoor applications: dual band MIMO Wi-Fi including the latest 802.11ac standard, Bluetooth® v5 with BLE for fast and ultra-low power connections, NFC for easy pairing, and particularly the cellular voice and data connectivity, leveraging the next generation of LTE-Advanced with dual SIMs.



## FEATURES

- Stunning 5.7" Full HD display in 18:9 ratio with Gorilla™ hardened glass
- Novel 2nd display for enriched notifications
- Android 9 (Pie) with Google Mobile Services; Android Enterprise Recommended
- Wireless charging eliminates all contacts on the device and dock
- Front and rear color cameras
- Fingerprint sensor for secure user authentication
- SafeSwap™ technology visually indicates when it is safe to swap the battery
- Ruggedized with drop resistance to 1.8 m / 6 ft to concrete and IP65/67 sealing
- Dual band MIMO Wi-Fi featuring 802.11ac and 802.11r/k/v for fast roaming
- Advanced cellular connectivity for voice and data, featuring LTE and Dual SIM
- Assisted GPS for location based apps
- Bluetooth v5 short range wireless technology
- NFC for proximity communications
- Advanced ultra-slim Megapixel 2D imager with Datalogic's patented 'Green Spot' technology for visual good-read feedback
- Datalogic's SoftSpot™ technology for innovative triggering through the touch display
- Chemical resistant plastics / enclosure designed to withstand daily cleaning with harsh disinfectant solutions
- EASEOFCARE Service Plans offer a wide range of options to protect your investment, ensuring maximum productivity and ROI. Datalogic Shield, for Android security patches and OS upgrades, is included with EASEOFCARE.

## INDUSTRY - APPLICATIONS

- Retail:
  - Assisted sales
  - Inventory
  - Shop floor applications
  - Mobile POS
- T&L:
  - Route accounting
  - Direct store delivery
  - Workforce management
  - Courier value-added services
- Manufacturing:
  - Production and quality control
  - Remote maintenance and tech support
  - Intra-logistics
  - Inventory
- Healthcare:
  - Bedside care
  - Home/remote care
  - Pharmacy/Labs
  - Inventory management

NOTE: The Android robot is reproduced or modified from work created and shared by Google and used according to terms described in the Creative Commons 3.0 Attribution License.



# 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