

MEMOR™ 12 RFID

Everyday RFID. Enterprise Value.



COMPACT BY DESIGN. READY FOR RFID.

Bring RFID into everyday frontline work without the cost, complexity or bulk of traditional RFID solutions. Memor 12 RFID combines built-in UHF RFID, enterprise barcode scanning and Android workflows in a slim, lightweight device designed for all-day frontline use.

FIND, SCAN AND VERIFY WITH ONE DEVICE

Move easily between RFID and barcode workflows. Built-in UHF RFID supports focused item identification, tag read/write and smaller inventory checks at distances up to 1.2 m. The Datalogic Halogen DE2121-DL scan engine combines Green Spot feedback and DeepSight decoding for fast, dependable barcode capture in changing conditions.

PERFORMANCE THAT KEEPS WORK MOVING

Combine RFID, barcode, NFC and Android workflows in one device. The Qualcomm Dragonwing™ QCS4490 platform, Wi-Fi 6E and optional virtual memory support responsive everyday performance. Built-in device finding uses a second BLE radio to help locate misplaced devices, including when the main device is switched off or the main battery is removed.

KEEP WORKING. ADAPT TO MORE USE CASES.

SafeSwap battery and flexible charging options help keep devices running throughout the day. USB-C, wired cradle and wireless charging support different operating needs, while 360-degree Multi-Side NFC extends Memor 12 RFID into payment, identification and contactless interaction workflows.

PROTECT YOUR INVESTMENT FOR LONGER

Memor 12 RFID is upgradeable through Android™ 19 with continued updates until 2032 and gets even better with tools from Datalogic Mobility Suite. Built-in device finding helps teams locate misplaced devices, while Datalogic software, accessories, services and lifecycle support help protect the investment for longer.

FEATURES

- **Focused UHF RFID:** Read and write tags at up to 1.2 m / 4 ft for item finding, verification, replenishment, returns and focused inventory checks.
- **Fast barcode capture:** Halogen DE2121-DL scan engine with Green Spot feedback and DeepSight decoding.
- **Connected performance:** Wi-Fi 6/6E, Bluetooth 5.3 and Qualcomm Dragonwing QCS4490 platform.
- **Rugged and high-quality display:** 6-inch FHD+ multi-touch display protected by Corning® Gorilla® Glass 7.
- **Flexible charging:** USB-C, wired cradle and wireless charging options, supported by SafeSwap battery protection.
- **Built-in device finding:** Second BLE supports Device Finder to help locate misplaced devices, even when switched off or without the main battery.
- **Long lifecycle:** Android platform upgradeable through Android 19, with software updates planned until 2032.
- **Built for daily use:** IP65/IP68 protection, with resistance to multiple 1.5 m / 5 ft drops to concrete over the operating temperature range when used with the rubber boot, plus tumble resistance for demanding frontline environments.
- **AVAILABLE SOON: Optional RFID Handle** - For workflows needing greater reach and a more secure grip, an optional RFID handle will be available in early 2027. Designed for more repetitive RFID tasks and small-to-medium inventory checks. Final specifications and availability to be confirmed.

INDUSTRY - APPLICATIONS

- **Retail:** Item finding, inventory verification, shelf replenishment, returns, asset checks, price checks, assisted sales and Click & Collect verification.
- **T&L:** Access Control Ticketing, Last mile delivery, Proof of delivery, Baggage reconciliation, Postal services
- **Healthcare:** Patient admittance, patient bed care, electronic Medical Records, Laboratory management

MEMOR 12 RFID

TECHNICAL SPECIFICATIONS

WIRELESS COMMUNICATIONS	
Local Area Network (WLAN)	Wi-Fi 6e IEEE 802.11 a/b/g/n/ac/ax and 802.11 d/e/h/i/k/r/v/w/mc; Frequency range: Country dependent, typically 2.4 GHz, 5 GHz and 6 GHz bands; 2x2 MIMO; WPA3 Enterprise 192-bit mode supported
Personal Area Network (WPAN)	Bluetooth wireless technology v5.3 (Classic Bluetooth wireless technology and BLE) 2 nd BLE with dedicated battery that enables device tracking for up to 14 days after main battery is powered off or removed
NFC Communication	Support for the following standards: Tag types 1/2/3/4/5 (ISO14443-4 A/B; ISO15693; Mifare; Felica) Card emulator. Contactless payments and Apple ECP protocol supported.

ELECTRICAL	
Battery	1-piece swappable battery pack with rechargeable Li-Ion batteries; 3.87V; 4,000 mAh typical (14.98 Watt-hours)
Wireless Charging	WPC Qi EPP compliant; 7W charging

ENVIRONMENTAL	
Drop Resistance	Multiple 1.3/4ft drops to concrete across operative temperature without rubber boot per enterprise standard according to MIL STD 810H. Multiple 1.5m/5ft drops to concrete over operating temp (-10°C to 50°C/14°F to 122°F) with rubber boot according to MIL STD 810H.
Tumbles	500 0.5m/1.6 ft tumbles at room temperature without protective boot, meets and exceed IEC 60068-2-32 Procedure 2 specification. 500 1m/3.2 ft tumbles at room temperature with rubber boot, meets and exceed IEC 60068-2-32 Procedure 2 specification.
Sealing	IP65 and IP68
Chemical Resistance	General purpose chemical cleansers: "Water solution of Sodium Hypochlorite" "Windex Multisurface / Glassex with ammonia" "Formula 409, Glass and Surface cleaner / Glassex with ammonia" "Ethyl alcohol" "Isopropyl alcohol" "Hydrogen peroxide"
Temperature	Operating: -10 to 50 °C / 14 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F
ESD	15kV air discharge / 8kV contact discharge

PHYSICAL CHARACTERISTICS	
Dimensions	165 x 76.7 x 13.5 mm / 6.49 x 3.0 x 0.53 in
Primary Display	6.0 inch LTPS in 18:9 format - FHD+ resolution 1080x2160; LED backlight; 450 NITS
Keys	Physical Keys: 2 side scan keys; PTT; Power On/Off; Volume Up/ Down; 3 Android soft keys
Touch Panel	Touch Screen: 5 points multi-touch capacitive panel with hardened Gorilla Glass 7 and optical bonding; Support for gloves and stylus; water drops rejection and anti-fingerprint surface finishing
Weight	With Battery: 245 g/8.6 oz

READING PERFORMANCE	
Camera	Rear Camera: Resolution: 13 megapixel; Auto focus Illumination: User controllable LED flash (torch mode); Front Camera: Resolution: 8 megapixel; Fixed focus
Scan Engine	Halogen™ DE2121-DL 1D/2D scan engine; Datalogic's "Green Spot" for good-read feedback;
Integrated RFID	Short range integrated UHF RFID; 1.2 m /4 ft range; EU 865-868MHz and US 902-928Mhz

SENSORS	
Vibration	Software programmable for duration and intensity
Accelerometer	3-Axis accelerometer to detect orientation
Gyroscope	Senses angular velocity
Ambient Light Proximity	Auto adjusts display backlight Auto deactivates display when close to face
Magnetometer	e-compass for direction and orientation detection
Barometer	Atmospheric pressure / Z-location (Memor 17 only)

INTERFACES	
Interfaces	High Speed USB 3.2 gen1 Host and Client (Type-C); Super Speed USB 2.0 (Type-C, Bottom I/O)

AUDIO	
Microphones	2 mics, with noise cancellation
Loudspeaker	Speaker for handsfree calls and audio application
Receiver	Speaker for voice calls

SAFETY & REGULATORY	
Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use.
Environmental Compliance	Complies to EU RoHS

SOFTWARE	
DATALOGIC MOBILITY SUITE - Discover more on: datalogic.github.io	

Protection	Shield - Android Security Updates; Launcher - to lockdown device to kiosk mode; Enterprise Browser - to web-browse only to a set of approved URLs; Integrity KIT - to safeguard HW interfaces
Configuration	Scan2Deploy Studio - to configure and stage device, OEMConfig - for UEM/EMM Compatibility, AE QR Code Enrollment - for easy EMM/UEM enrollment
Development	SDKs (Java, Kotlin, Xamarin, .NET MAUI JavaScript), Visual Formatter - a no-code platform for barcode formatting, Wedge - a configurable barcode scanning input method
Optimization	SoftSpot - a draggable touch scanner trigger; Logger - to collect advanced device events log; Wi-Fi Guard - to collect Wi-Fi data and statistics; Battery Manager to select from different charging policies; QuickBoard - A customizable enterprise virtual keyboard to enhance productivity and adapt to specific application contexts; Snap OCR - Rear or scanner camera digitizes text, streamlining data entry and label parsing

Additional Features	
Provisioning	Android Zero-Touch, Android Enterprise QR Code, NFC Bump, EMM Token, DPC Identifier enrollment
UEM/EMM	SOTI MobiControl, VMWare Workspace One, Microsoft intune, 42Gears Sure MDM, Ivanti Neurons, Ivanti Avalanche, and any OEM Config compliant UEM/EMM
Terminal Emulator and PTT Compatibility Highlight	Ivanti Velocity, StayLinked Smart TE, Zello PTT

SYSTEM	
SIM Slots	1 Nano SIM; 1 eSIM
Expansion Slots	1 Micro SD card (up to 2TB)
Memory	RAM Model 6GB: 6 GB on-chip RAM, plus an optional 2 GB SWAP Memory (using flash storage as extra RAM, activated through a setting). UFS Flash Storage: 64 GB (both models)
Microprocessor	Qualcomm QcX4490 Octa-core 2.4 GHz
Operating System	Android 15, upgradeable to Android 19
Real-Time Clock	Time and date stamping under software control

WARRANTY	
Warranty	1-Year Factory Warranty

ACCESSORIES

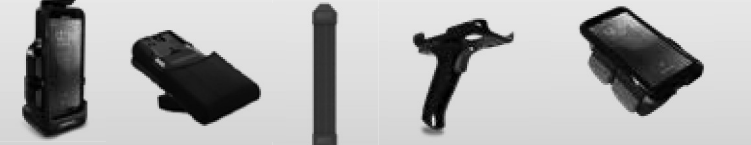
For full accessory range please refer to M12-17 accessory guide*

Base Stations/Chargers



- Charging Dock
(wired or wireless available)
- 4-Slot Charging Dock
(wired or wireless available)
- Multi Battery Charger

Miscellaneous



- Vehicle Charger
- Belt Holster
- Hand Strap
- Trigger Handle
- Wearable Holder

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