

JMDT80 vs Tier-1 8" Enterprise Tablets

8" rugged Android tablet (1200×1920, 600 nits) with **built-in Zebra SE scan engine**, **IP68** ingress protection, 5G and hot-swap battery — plus intrinsically safe and healthcare variants that are rare in this class, at a lower total cost.

IP68 DEFAULT INGRESS	500 g LIGHT 8" WEIGHT	19 MAX ANDROID UPGRADE	5G + GNSS + NFC
600 nits 1200×1920 DISPLAY	Hot Swap BATTERY OPTION	T80Ex EX IB VARIANT	T80HC HEALTHCARE VARIANT

PRODUCT OVERVIEW

Enterprise tablets must survive drops, dust, water and disinfectants while staying connected across factories, vehicles and field sites. Yet many Tier-1 tablets in this class are **IP65**-rated and need an **optional expansion back** to scan; several lack a dedicated intrinsically safe or healthcare variant.

The JMDT80 closes these gaps in an 8", 500 g, 11.6 mm package. It ships with **IP68** as standard — **independently verified by SGS** (IEC 60529: IP6X dust + IPX8 immersion at 1.5 m for 30 min; MIL-STD-810H 516.8 drop: 26 drops from 1.3 m) — plus a **built-in Zebra SE scan engine**, 5G, Wi-Fi 6, four-constellation GNSS and Android 15 upgradable to Android 19. For regulated environments, JMDT80Ex and JMDT80HC extend the same platform to hazardous areas and healthcare.

SGS third-party verified ruggedness IP68 (IEC 60529) and 1.3 m drop (MIL-STD-810H 516.8 Proc. IV, 26 drops) are proven in SGS lab reports (SUER251200166071 / SUER251200165971) — independent evidence your customer can audit. Many competing ruggedness ratings are manufacturer self-declared.	IP68 by default, not IP65 JMDT80 is sealed against dust-tight submersion out of the box — SGS-verified with zero dust ingress after 2 h and zero water ingress after 30 min at 1.5 m. Many Tier-1 tablets in this class are rated IP65, leaving them exposed in wet or wash-down industrial workflows.
Built-in scanning, no add-ons JMDT80 integrates Zebra SE4710/SE55/CM60 scanning without an add-on back. Many competing tablets require a separate scan expansion module, adding cost and a potential failure point.	Rare variants: Ex ib + healthcare JMDT80Ex is intrinsically safe for hazardous areas; JMDT80HC is disinfectant-ready for hospitals and clinics. Few Tier-1 tablet lines offer a directly comparable intrinsically safe or healthcare model.
Android 15 → 19 latest platform Many tablets in this class launched on Android 11 and officially upgrade only to Android 14. JMDT80 starts on Android 15 and keeps the platform current through 2029+.	Full connectivity: 5G + Wi-Fi 6 + GNSS + NFC Some competing models ship without cellular or top out at 4G. JMDT80 delivers 5G, four-constellation GNSS and NFC as standard for true mobile field use.
Lightweight 8" rugged design	

At 500 g and 11.6 mm, JMDT80 stays easy to hold through long shifts. Active stylus and optional fingerprint add field annotation and secure login.

USE APPLICATIONS

Field Service

Work orders, asset inspection, route dispatch, proof-of-service with GPS tagging.

Manufacturing

Work instructions, quality checks, WIP tracking, machine-side HMI in dusty plants.

Healthcare

T80HC for nurse stations, medication verification, patient ID with disinfectant-ready housing.

Hazardous Areas

T80Ex for oil & gas, chemical, pharma and mining where intrinsically safe equipment is required.

HEAD-TO-HEAD — SPEC SNAPSHOT

JMDT80 is positioned in the Tier-1 8" enterprise tablet class. JMD's advantage is full IP68 ingress, built-in scanning, rare Ex/healthcare variants and the latest Android platform at a lower acquisition cost.

SPEC	JMDT80	TYPICAL TIER-1 8" ENTERPRISE TABLETS
PLATFORM & SOFTWARE		
Android	15 → 19 ▲	11 → 14 typical
RAM / ROM	6/64 std · 8/128 premium	Varies by model
DISPLAY & RUGGEDNESS		
Display	8" 1200×1920, 600 nits ▲	8–10", ~500 nits typical
Ingress	IP68 (SGS) ▲	IP65 typical
Drop	1.3 m (SGS MIL-STD-810H) ▲	1.0–1.2 m typical
CONNECTIVITY & DATA CAPTURE		
Cellular	5G ▲	4G–5G; some models without cellular
GNSS	GPS+GLONASS+BeiDou+Galileo+AGPS ▲	Varies by model
NFC	Standard ✓	Optional on many models
Wi-Fi	Wi-Fi 6	Wi-Fi 5–6 typical
Scan engine	Built-in Zebra SE4710/SE55/CM60 ▲	Optional expansion back on many models
POWER & COMMERCIAL		
Battery	6,050 mAh, hot-swap option ▲	Fixed battery on most models
Weight	500 g / 11.6 mm	~480–514 g by model
Special variants	T80Ex (Ex ib), T80HC healthcare ▲	Rarely offered
White-label / OEM	Yes, low MOQ ▲	Not typical

▲ = JMDT80 advantage. The competitor column reflects typical specifications of Tier-1 8" enterprise tablets; individual models vary. JMDT80 uses shared Zebra scan-engine hardware — decode performance requires no re-validation. Ruggedness ratings are SGS-verified; see report numbers in the overview above.

PRODUCT LINE — ONE PLATFORM, THREE ENVIRONMENTS

Three JMDT80 variants share the same 8" chassis, 5G modem and Zebra SE scan engine.

STANDARD RUGGED TABLET

INTRINSICALLY SAFE VARIANT

HEALTHCARE VARIANT

JMDT80

- › 8" 1200×1920, 600 nits · 500 g · Android 15 → 19
- › Zebra SE4710 / SE55 / CM60 built-in
- › 5G, Wi-Fi 6, four-constellation GNSS
- › IP68, 1.3 m drop (SGS verified)
- › 6,050 mAh, optional hot swap

Field service, manufacturing, mobile POS

JMDT80Ex

- › Ex ib IIC T4 Gb / Ex ib IIIC T130°C Db
- › Certificate CCRI 25.7223X
- › Same 8" display, 5G and scanning core
- › IP68 rugged housing
- › Built for hazardous-area workflows

Oil & gas, chemical, mining, pharma

JMDT80HC

- › Disinfectant-ready housing
- › Resistant to alcohol, quaternary salt, peroxide
- › Same 8" display, 5G and scanning core
- › IP68 sealed for wash-down
- › Optional fingerprint for secure login

Hospitals, clinics, pharma clean rooms

FAQ — QUESTIONS PROCUREMENT TEAMS ASK

Q. How does JMDT80 compare to Tier-1 enterprise tablets?

A. JMDT80 matches this class on 5G and built-in scanning, and goes further on IP68 ingress (many competing units are IP65), a more recent Android 15 platform upgradable to Android 19, and a 500 g footprint. JMDT80Ex and JMDT80HC are also available for hazardous areas and healthcare.

Q. Does JMDT80 scan without an expansion back?

A. Yes. JMDT80 has a built-in Zebra SE4710/SE55/CM60 scan engine with a physical scan key. Many competing tablets require an optional expansion back to add scanning capability.

Q. Is a disinfectant-ready version available?

A. Yes. JMDT80HC is disinfectant-ready and IP68 sealed for hospital and clinic workflows. Few Tier-1 tablet lines include a dedicated disinfectant-ready model.

Q. Can the battery be swapped without shutting down?

A. Yes. JMDT80 supports an optional hot-swap battery configuration, allowing continuous operation across long shifts or field routes.

Q. Do you support white-label or OEM branding?

A. Yes. Low-MOQ pilot orders, custom boot logo, packaging and SKU customization are available for distributors and VARs building their own tablet line.

Request a Quote or Pilot Unit

Tell us your project scale, target product and region. We typically reply within one business day with channel pricing, MOQ and lead-time — including white-label / OEM options and regional certification guidance.

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