



Impinj® Monza® X-8K PCB On-Metal UHF RFID Tag

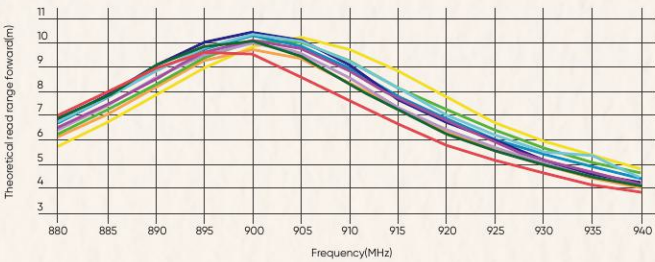
SKU:	RS-MX8K-OMPCB3M-8030
Chip Type:	Impinj® Monza® X-8K
Frequency:	UHF 902-928 MHz (US)
EPC Memory:	128 bits
User Memory:	8192 bits
TID Memory:	96 bits
Serial Number:	48 bits
Read Range:	4m on metal surface (bases on M730 chip handheld device, 30 dBm power)
Protocol:	ISO/IEC 18000-63, EPCglobal Gen2v2
Industry:	Automotive, Transportations, Industrial
Applications:	Metal, Vehicle Tracking, Asset Tracking, Industrial Use

The Impinj® Monza® X-8K PCB On-Metal UHF RFID Tag is a robust, high-capacity identification solution designed for dependable performance on metal assets in demanding industrial environments. Featuring the advanced Monza® X-8K chip, it delivers outstanding read sensitivity, rapid inventory processing, and extended memory capacity to support secure data storage and advanced asset-level encoding. Fully compliant with ISO/IEC 18000-6C and EPC Global Gen2v2 standards, this tag integrates seamlessly with global UHF RFID infrastructures, making it ideal for applications such as industrial asset management, tool tracking, and automated logistics systems.

Constructed with an industrial-grade PCB housing, the tag is built to withstand impact, vibration, moisture, and extreme temperature conditions. Its optimized on-metal design ensures stable and consistent RF performance when mounted directly onto metal surfaces using screws, adhesives, or mechanical fasteners. Combining long read range, high memory capacity, and rugged durability, the Monza® X-8K PCB On-Metal RFID Tag delivers a dependable, long-term solution for tracking and managing high-value assets in harsh operational environments.

Reading Performance

Reading Range Under Different Frequency



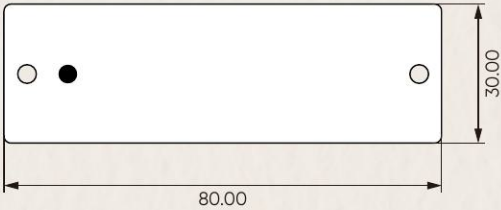
Physical Information

Material	PCB+3M adhesive
Tag Size (L×W×H)	80×30×3 mm
Surface	Metal
Operating Environment	-20°C~+50°C, 20%~80% RH
Storage Environment	+18°C~+28°C, 40%~60% RH
Mounting Method	Stick & Screw

Technical Information

Operating Frequency	902~928 MHz (US)
Communication Protocol	ISO/IEC 18000-63, EPCglobal Gen2v2
Chip Type	Impinj® Monza® X-8K
EPC Memory	128 bits
User Memory	8192 bits
TID Memory	96 bits
Serial Number	48 bits
True3D™ Dual Antenna Technology	Support
FastID™ High-speed Read Capability	Support
Short-range Mode	Support
I2C Interface	Support
Security Features	32 bits Access & Kill Password, QT® Memory Security
Read Range	4m on metal surface (bases on M730 chip handheld device, 30 dBm power)

Dimensions
(Unit: mm)



● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment. ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage. ● **Product Updates and Revisions:** rfidbridge.com may change products, specs, or services at any time without prior notice. ● **General Use Disclaimer:** Products are for general-purpose use and not intended for safety-critical or life-support applications. ● **Legal Notice:** Information is believed accurate but may change. rfidbridge.com is not liable for use-related issues or outcomes.