



## Emdoor Information's EM-Q885M Rugged Tablet Enables an Integrated Ticketing Solution, Boosting Digital Efficiency for Bus Systems

### Overview

The client, a leading smart ticketing solution provider, specializes in developing and deploying on-board ticketing systems. During the rollout of unattended ticketing for buses, they faced challenges such as complex device integration, harsh vehicle environments, poor system compatibility, and inconvenient operation. With its rich I/O expansion, superior durability, open Android system, and complete in-vehicle integration solution, Emdoor Information's EM-Q885M rugged tablet successfully enabled a stable, all-in-one ticketing terminal – helping the client achieve digitalized ticketing and intelligent operations.



**EM-Q885M**

### Client Story

The client is dedicated to providing intelligent ticketing solutions for urban bus systems. In real-world deployments, consumer-grade tablets proved inadequate for bus use due to limited ports, poor vibration and temperature resistance, and unstable mounting. The client needed a professional terminal capable of connecting multiple peripherals – NFC reader, code scanner, and ticket printer – while withstanding constant vibration and temperature changes. The EM-Q885M, with its multiple interfaces, strong anti-shock design, and customizable Android system, met all demands for stability, expandability, and system compatibility.

# Challenges

In the process of promoting the unattended bus ticketing system, the client mainly faced four core challenges:

**First, limited device integration.** Consumer-grade tablets have few interfaces and insufficient power, making it impossible to stably connect multiple peripherals such as NFC readers, code scanners, and ticket printers – failing to meet multi-device collaboration needs.

**Second, poor environmental adaptability.** Continuous vibration, bumps, and temperature changes during bus operation can easily cause system crashes, loose connections, or hardware damage, severely impacting device stability and lifespan.

**Third, inconvenient installation and operation.** The driver's cabin

has limited space, standard tablet mounts are hard to secure, and the lack of proper cable management affects both safety and ease of use.

**Finally, challenged system compatibility and stability.** The client's custom ticketing software required deep hardware integration to ensure long-term stable operation and prevent crashes or data loss.

Given these issues, the client urgently needed a rugged tablet with multiple interfaces, wide temperature and vibration resistance, easy installation, and strong system compatibility to build a stable, reliable unattended bus ticketing system.

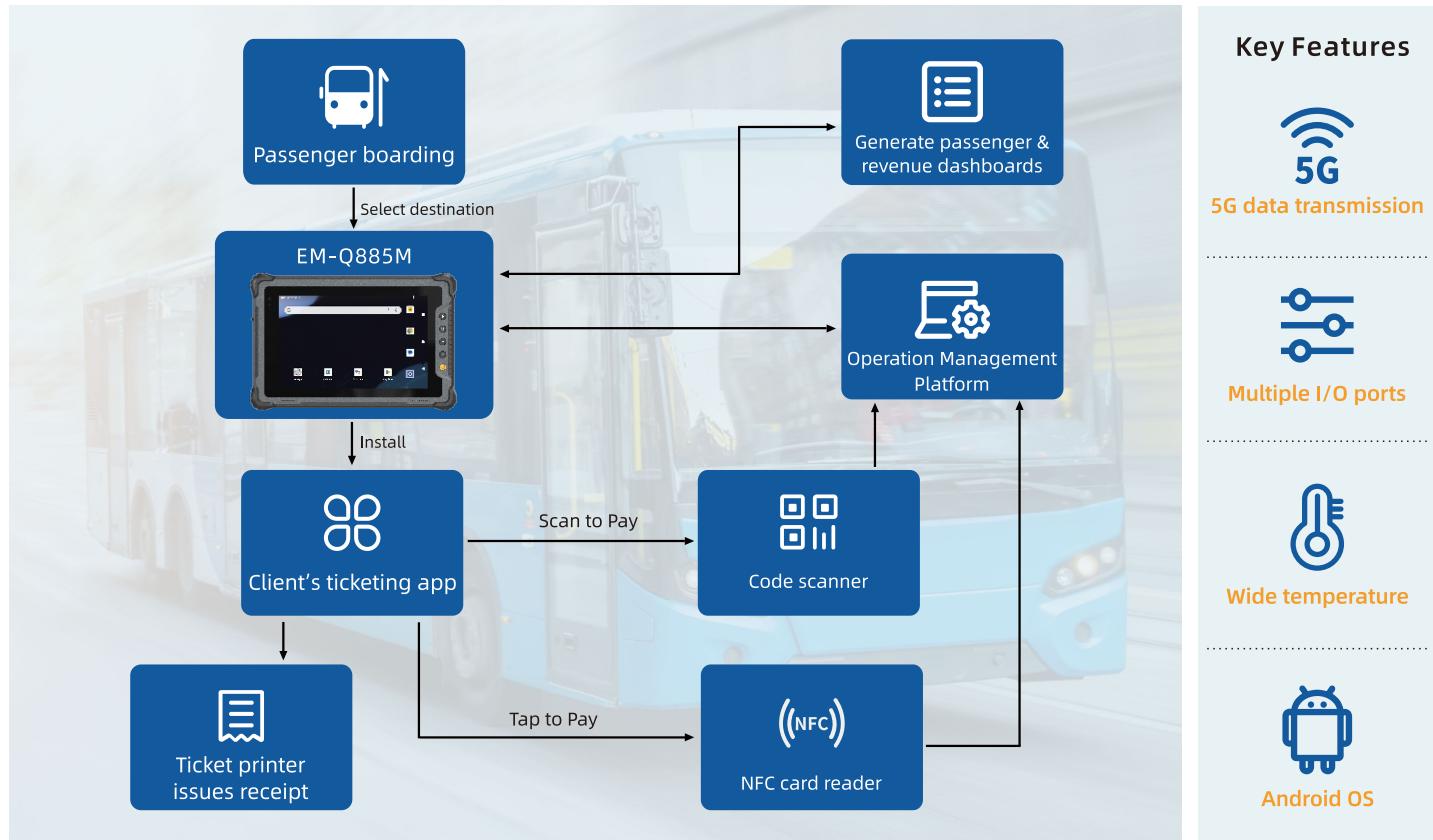
## Why EM-Q885M?

To overcome these challenges, the client began to search for a professional terminal capable of integrating multiple peripherals and running stably in tough environments. After evaluating several products, the client chose Emdoor Information's EM-Q885M rugged tablet.

The EM-Q885M offers 5G connectivity, rich I/O expansion, MIL-STD-810H military-grade durability, and wide-temperature operation. Emdoor also provided a cost-effective total solution with comprehensive technical support – perfectly fitting the needs of integrated hardware-software ticketing applications.



## Workflow



# Solution



Emdoor Information developed a fully integrated solution based on the EM-Q885M rugged tablet, addressing the core issues of device integration, environmental adaptability, and system stability in bus ticketing.

In hardware integration, the EM-Q885M is securely mounted in the driver's area using a professional vehicle bracket with multiple extended USB ports, allowing simultaneous connection to the NFC reader, code scanner, and ticket printer. This all-in-one setup eliminates cable clutter and device stacking, creating a clean, stable, and easy-to-operate workspace.

In software integration, running a customized Android system, the EM-Q885M comes pre-installed with the client's ticketing app, set to auto-launch at startup. It supports key system functions such as power control and time synchronization, enabling intelligent

device management and ensuring 24/7 stable operation.

In operation, after boarding, passengers select their destination on the tablet and complete payment via NFC or QR code. The system processes the transaction instantly, prints a receipt automatically, and uploads all data in real time through the built-in 5G module. The central system then generates accurate passenger flow and revenue reports, supporting route optimization and intelligent scheduling, helping the client achieve digitalized and efficient operations.

## Client Review

"The EM-Q885M from Emdoor Information not only solved our challenges with in-vehicle integration and stability but also helped us quickly build a reliable, efficient unattended ticketing system. Its complete hardware-software customization and vehicle integration solution provided strong support for our digital transformation."

– Smart Ticketing Project Manager

## Benefits

### 1. Integrated design for tidy and efficient operation

The EM-Q885M combines NFC reader, code scanner, and ticket printer in one streamlined setup, eliminating messy cabling and simplifying the driver's workspace.

### 2. Rugged durability ensures stable performance

MIL-STD-810H compliance provides excellent shock, vibration, and temperature resistance for continuous, reliable operation.

### 3. Real-time data transmission enables accurate management

The 5G network allows instant data uploads for precise passenger analysis, revenue tracking, and intelligent dispatching.

### 4. Deep software-hardware integration

The open Android system is fully customized and seamlessly integrated with the client's ticketing software, ensuring long-term stability and smooth operation.

For more information on rugged terminals and industry solutions, feel free to contact us.

We specialize in providing high-quality rugged mobile computing devices and customized solutions for industry clients worldwide.

