

Communications Gateway

M2MD Technologies, Inc. offers a Communications Gateway for cellular IoT devices that strengthens security, reduces costs and enhances the user experience. The Gateway securely and efficiently connects the wireless network to an enterprise's IoT platform of choice.

Key Features:

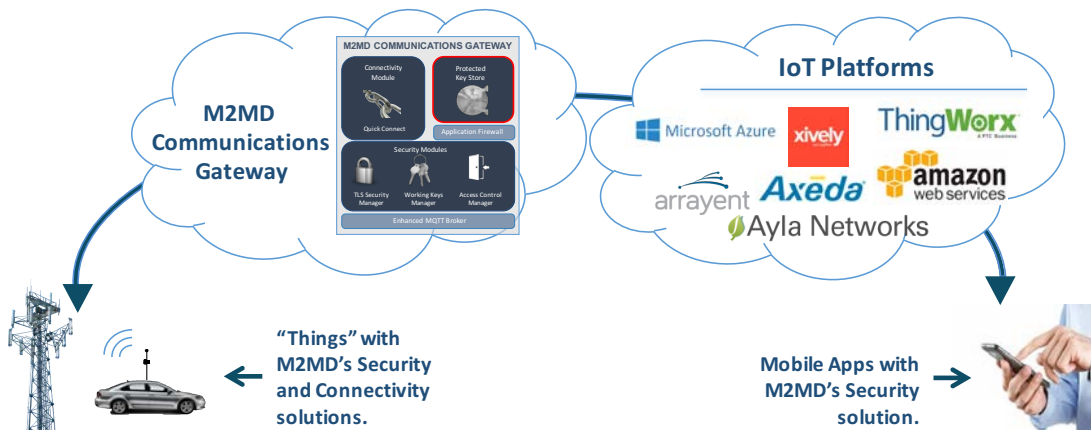
- End-to-End Security** – The Gateway provides stronger security with low overhead, saving processing time and reducing the amount of data transmitted over the network. The patent pending solution authenticates device credentials at each connection utilizing standard TLS 1.2 with a design optimized to run on the constrained processors used by many IoT devices. The Gateway avoids the pitfalls of public key infrastructure and certificate operations which has been a common vulnerability exploited in recent security breaches.
- Quick Connect** – The Gateway instantly triggers a network initiated data session by eliminating the expensive alternatives currently used by the industry to keep data sessions active, including the continuous pinging of data and the SMS “shoulder tap.” The result is an immediate connection for the user, significantly less network traffic that reduces overall operating costs, and an extended battery life for remote devices.
- Network Management** – The Gateway has pre-established data circuits with the major cloud platform providers reducing the enterprise need for circuits and manpower to operate them. In addition to leveraging shared cloud resources, an enterprise can launch more quickly and scale more efficiently.

FEATURES:

- Virtualized Solution
- Optimized for Cloud
- Scalable
- Designed For Constrained Devices
- End-to-End Security
- Utilizes TLS 1.2
- Multi-layer Encryption
- Mutual Authentication
- Secure Remote Firmware Updates

BENEFITS:

- ✓ Operates with most IoT Platforms
- ✓ Easy Implementation
- ✓ Industry Agnostic
- ✓ Simplifies Device Manufacturing
- ✓ Strengthens Security
- ✓ Prevents “Man in the Middle” and Other Attacks
- ✓ Reduces Network Overhead
- ✓ Lengthens Battery Life
- ✓ Reduces Recalls
- ✓ Lower Cost Devices



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■ End-to-End Security:

- Leverages latest security standards of TLS 1.2.
- Reduces memory and processor requirements - ideal for TCUs.
- Saves processing time resulting in better customer experience.
- Reduces data transmitted which lowers communications costs.

■ Quick Connect:

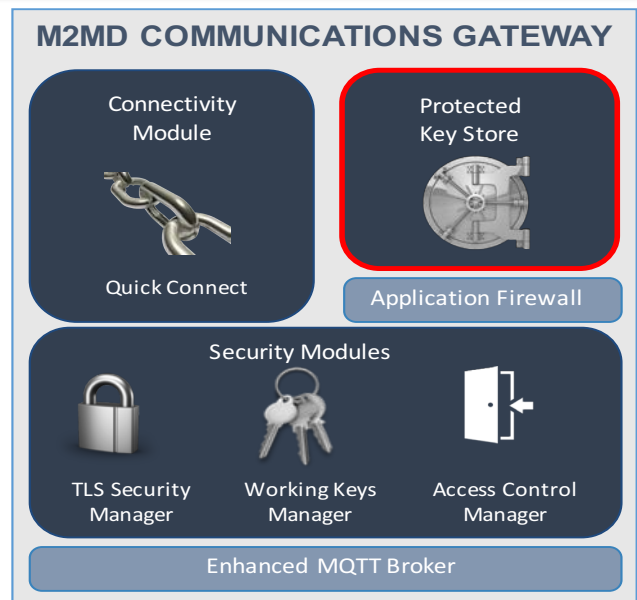
- Instantly triggers a network initiated data session.
- Provides a better user experience by providing instant feature access.
- Lowers costs by eliminating SMS “shoulder tap” and continuous data pinging.
- Saves the vehicle battery by allowing TCU to remain in low power state - yet reachable.

■ Network Management:

- Manages data circuit connections between wireless carrier network and enterprise application servers.
- Reduces costs through better utilization of network resources.

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- ① **Connectivity Module** instantly initiates a data session from an IoT platform to a remote device.
- ② **Protected Key Store** contains the secret credentials and algorithms that generate working keys.
- ③ **Security Modules** provide comprehensive and efficient end-to-end security.
- ④ **MQTT Broker** enhances standard protocol for data transport leveraging new techniques for cellular devices.



About M2MD Technologies

M2MD Technologies, Inc. (www.m2mdtech.com) offers solutions optimized for cellular IoT that provide stronger security, reduced costs, enhanced user experience and ultimately generates higher returns for stakeholders. Centered on a core platform of security offerings, the company develops and manages various solutions that accelerate connections to the vehicles, allow consumers to leverage their shared data plan for automotive applications and simplify the customer experience.

