

## MIM Product Range



**Brand:** Smartjac Industries Inc  
**Product Code:** SMA100MIM

### Short Description

M2M and IoT applications present new technology challenges, and in many cases, standard components designed for consumer devices are not ideally suited to the job. To meet the need for an M2M optimized SIM card that is ruggedized for long life in extreme conditions, R&D developed a specialized platform called the Machine Identification Module - MIM™ that has quickly become the preferred solution for enabling secure cellular connections.

### Description

Building upon proven SIM technology, MIMs secure the identity of machines communicating on cellular networks and provide security authentication and ciphering information among other features. MIMs are optimized to:  
Survive extremes of vibration, temperature, and humidity.

### Common to M2M applications:

Endure a long life span (ex: 10+ years)

Occupy a small footprint (miniaturization)

Withstand and integrate into industrial manufacturing processes MIMs ensure that mobile operators can claim and retain a significant stake in the M2M market while providing new opportunities for OEMs, service providers and customers. The unique platform is available in several form factors and is enabling successful global M2M deployments for

a wide array of industries including automotive, metering, remote management, industrial data collection, healthcare and many more.

## MIM Product Range

MIM offering includes universal solutions as well as products that address specific needs:

<b>U-MIM Quad</b>	<b>M2MPlug8 5</b>	<b>M2M Plug1 05</b>	<b>Full M2M Quad</b>	<b>Full Auto Quad</b>
Ideal for consumer M2M applications	Ideal for replacement of classic SIM in existing modems	Ideal for replacement of classic SIM in existing modems	Miniaturized standardized format (TS 102.671)	Miniaturized standardized format (TS 102.671)
Miniaturized, standardized format (TS 102.671)	Standard SIM card format	Standard SIM card format but made with a more robust material	Resistant to theft	Resistant to theft
Resistant to theft	Suitable for environments up to 85°C	Resistant to harsh environments	Semiconductor packaging (SMD) resistant to high temperature (105°C), shocks, vibrations and humidity	Semiconductor packaging (SMD) resistant to high temperature (105°C), shocks, vibrations and humidity
	Industrial grade - industrial qualification (JEDEC)	Suitable for environments up to 105°C	Industrial grade - industrial qualification (JEDEC)	Industrial grade - industrial qualification (JEDEC)
	Exclusive extended Life mechanism to endure a longer life span	Industrial grade - industrial qualification (JEDEC)	Exclusive extended Life	Automotive requirements

Life mechanism to endure a longer life span

mechanism to endure a longer life span

compliance (AEC Q100 / TS 16 949)

Exclusive extended Life mechanism to endure a longer life span

## Product Family

Product Family	U-MIM Quad	M2MPlug 85	? M2MPlug 105	Full M2M Quad	Full Auto Quad
Drivers	Miniaturization	Fit any equipment	Fit any equipment	Industrial grade	Auto grade
	M2M Consumer Electronics	M2M Industrial	M2M Industrial	M2M Industrial	Automotive std
			Extended endurance	Extended endurance	Extended endurance
?					
Temperature resistance range	GSM standard	-35°C / +85°C	-40°C / +105°C	-40°C / +105°C	-40°C / +105°C
M2M qualification (JEDEC)			•	•	•
eXtended Life mechanism	as an option	•	•	•	•
Enhanced silicon		•	•	•?	•?
Burn-in					•?
Data retention	10 y / 25°	10 y / 85°	10 y / 85°	10 y / 25°	17 y / 80°?
Automotive req compliance					AEC Q100 / TS 16 949 

## **MIM Key Features**

- Field-proven solution
- Designed for industrial applications
- Built for an extended life span thanks to the Extended Life Mechanism
- Highly secure

## **Associated Technology and Benefits for M2M Value Chain**

- Java™ Card OS
- Advanced EEPROM endurance
- Operator Benefits
- Simplified SIM logistics and reduced costs
- Helps mobile operators claim and retain a significant stake in this new market
- Warranty extension according to customer specifications
- Easy to integrate
- M2M industrial qualification (JEDEC)
- Avoid SIM manual manipulation (FullM2M)
- Optimizes logistics