






M2M SIM Specifications

22 July 2015

SIM specifications

Note: Information is intended as a guide only and is subject to change

Form factor	2FF M2M fully ruggedized Mini	3FF M2M fully ruggedized Micro	MFF2 (VQFN8) M2M fully ruggedized Chip
Picture			
Grade	Industrial	Industrial	Industrial
Size	15mm x 25mm x 0.76mm	12mm x 15mm x 0.76mm	5mm x 6mm x 0.9mm
Temperature range	Operating -40°C to +105°C Storage -40°C to +125°C	Operating -40°C to +105°C Storage -40°C to +125°C	Operating -40°C to +105°C Storage -40°C to +125°C
NVM (non-volatile memory) endurance	Up to 500,000 @ +105°C Max cycling: 16m per 4KB sector	Up to 500,000 @ +105°C Max cycling: 16m per 4KB sector	Up to 500,000 @ +105°C Max cycling: 16m per 4KB sector
Data retention	Up to 15 years @ +85°C Up to 10 years @ +105°C	Up to 15 years @ +85°C Up to 10 years @ +105°C	Up to 15 years @ +85°C Up to 10 years @ +105°C
Plastic type	PVC, ABS, PET	ABS	n/a

Form factor	2FF M2M fully ruggedized Mini	3FF M2M fully ruggedized Micro	MFF2 (VQFN8) M2M fully ruggedized Chip
Socketable	yes	yes	no
Solderable	no	no	yes
Soldering Profile	n/a	n/a	JEDEC J-STD-020C
Supply voltages range	1.62 V to 5.5 V	1.62 V to 5.5 V	1.62 V to 5.5 V
Abbreviated Dial Numbers (ADN)	200	200	200
Fixed Dial Numbers (FDN)	100	100	100
Vibration tolerance	n/a	n/a	Vibration Variable Frequency (VVF) according to JESD22-B103
RoHS/WEEE	Yes	Yes	Yes
Availability	Available	Available	Available
Minimum order quantity	50+	50+	500
Order multiples	Variable	Variable	500
Packaging	Individual/box	Individual/box	Reel (SIM reader also required)

