

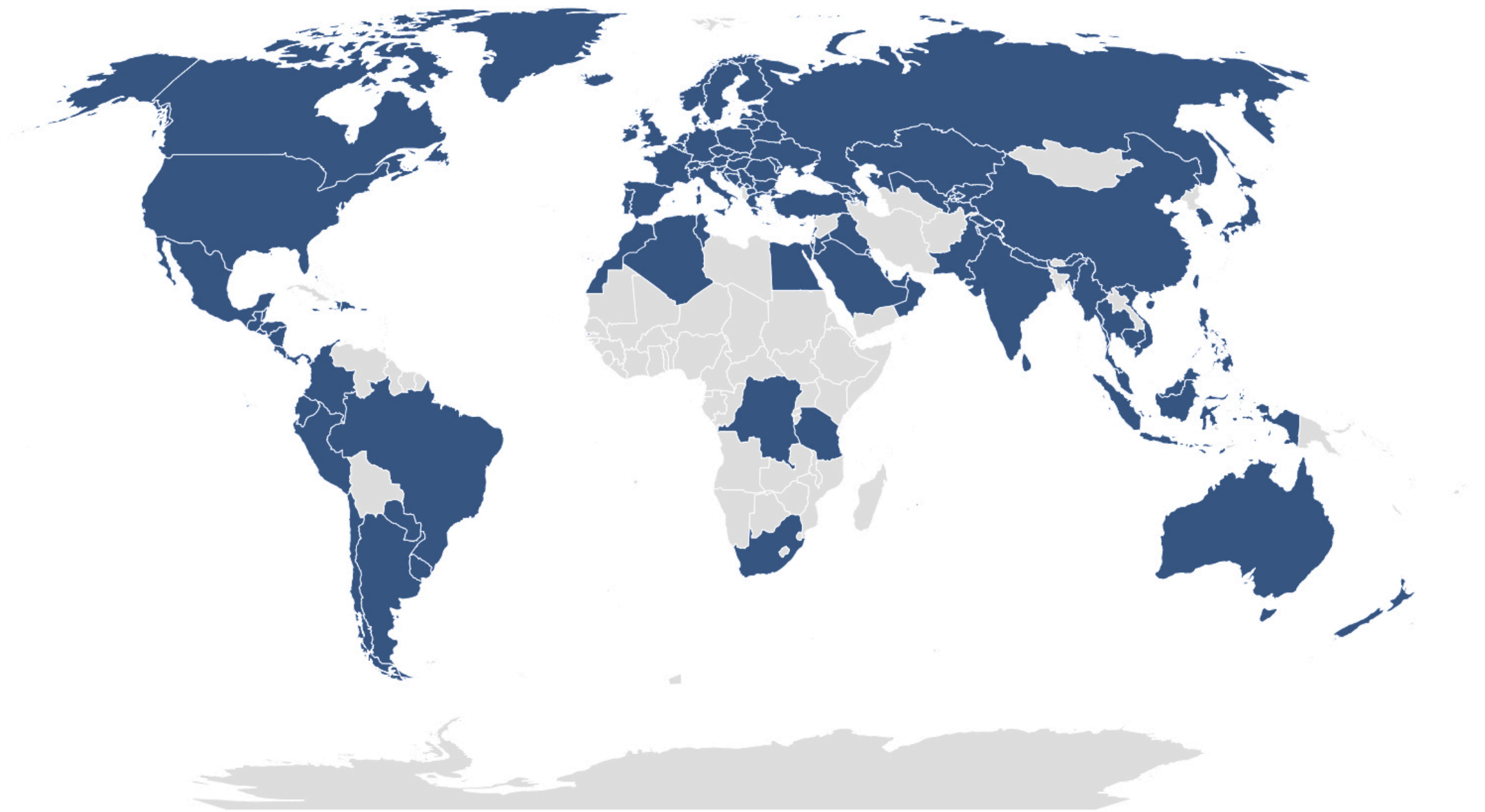


OneSimCard Embedded MFF2 IoT SIM



- MFF2 embedded SIM card
- 2G, 3G & 4G capable (including Cat M/M1 support)
- Single, or tape and reel rolls 500 per roll
- Coverage in 130+ countries
- Web Account Management
- Dedicated Support

Global Coverage



(TCNS SIM type as of 9/2020)

FEATURES

CPU

SC000 32-bit CPU core

Fully 16-/32-bit RISC architecture

Memory

228kB Flash for program and data

5kB SRAM

Flash Operations

Page (512 bytes) /Sector (4kB) /Chip erase operation

0.4~2.0msec for page erase time 2.0msec for sector erase time 8.0msec for chip erase time

Program with 4 bytes fixed unit with 25us program time

Min. 100,000 erase/write cycles

Min. 25 years data retention at 25°C

Serial I/O Interface

H/W UART for asynchronous half-duplex (conforms to ISO 7816-3)

Reset

Power-on reset

External reset circuit

Data Security

256B for security (read only) and 256B OTP area.

Reset operation is selective if abnormal condition is detected.

Security

Voltage/Frequency/Glitch/Temperature detector

Timers

One 16-Bit timer with 8 bit pre-scaler

16-Bit Random Number Generator

One 16-Bit R.N.G for security key generation

Start/Stop control

H/W protection against side channel attacks, for DPA / SPA

Operating Characteristics

Operating Voltage: 1.62V ~ 5.5V

Operating External Frequency:

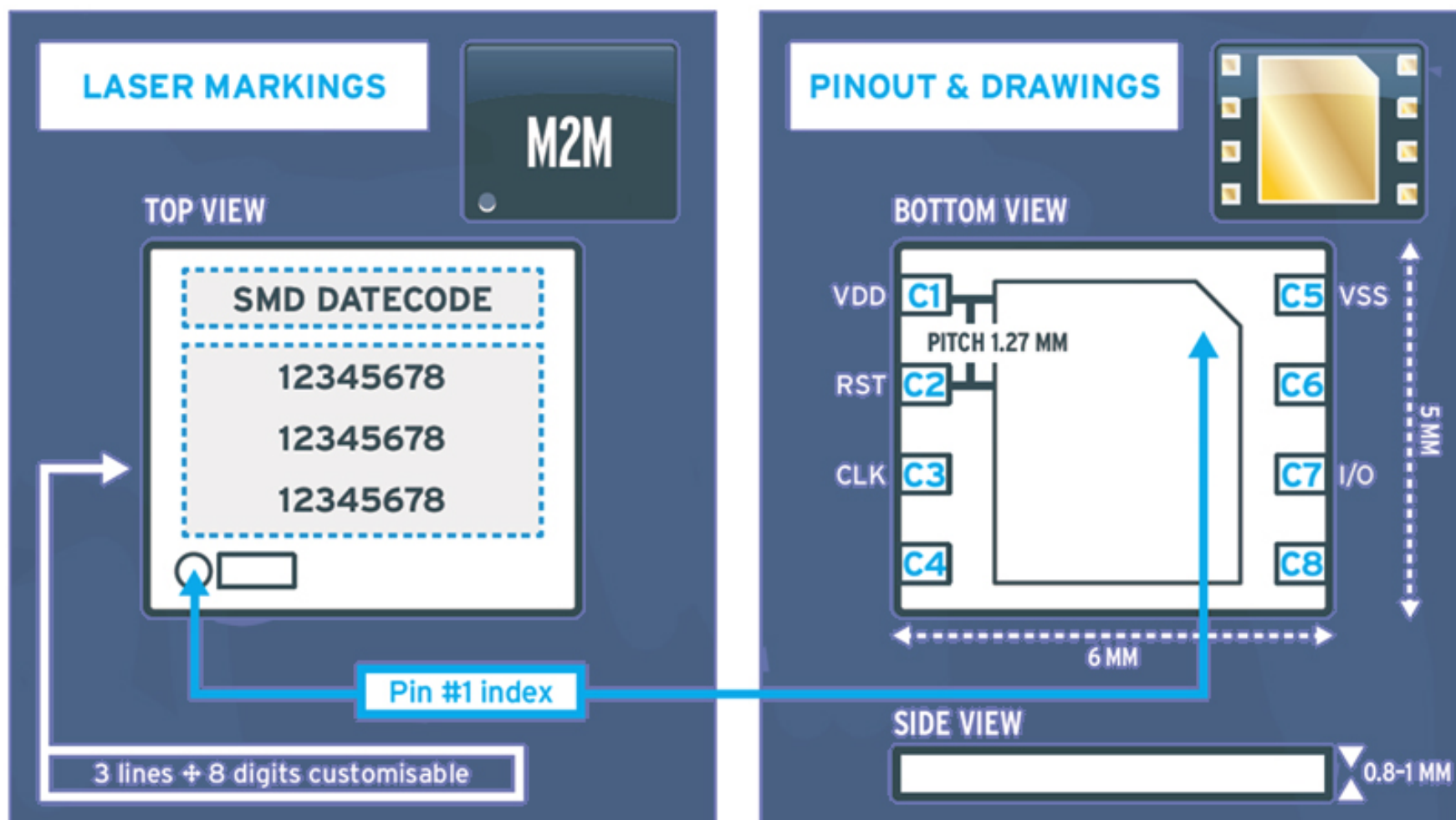
1 ~ 10MHz (Class A/B), 1 ~ 7.5 MHz (Class C)

Operating internal frequency: max 14MHz

Operating Temperature: – 25 C ~ 85 C

Specifications

Size	MFF2
TEMPERATURE RANGE (OPERATING)	TS
	-25°C +85°C
HUMIDITY	HA
CORROSION	CA
VIBRATION	VA
SHOCK	SA
FRETTING	FA
RETENTION TIME (DATA)	RA
	10 YEARS
UPDATES (PER MEMORY PAGE)	UB
	500,000



The SMD can be laser marked with up to 10 characters x 3 lines. For eye readability we recommend not exceeding 8 characters per line.

ETSI Standardised form factor is called MFF2 (M2M Form Factor #2) and is defined in ETSI TS 102 671.