OneSimCard Embedded MFF2 IoT SIM



- MFF2 embedded SIM card
- 2G, 3G, 4G & 5G capable (including Cat M/M1 & NB-IoT support)
- Single, or tape and reel rolls 500 per roll
- Coverage in 200+ countries
- Web Account Management
- Dedicated Support

Global Coverage

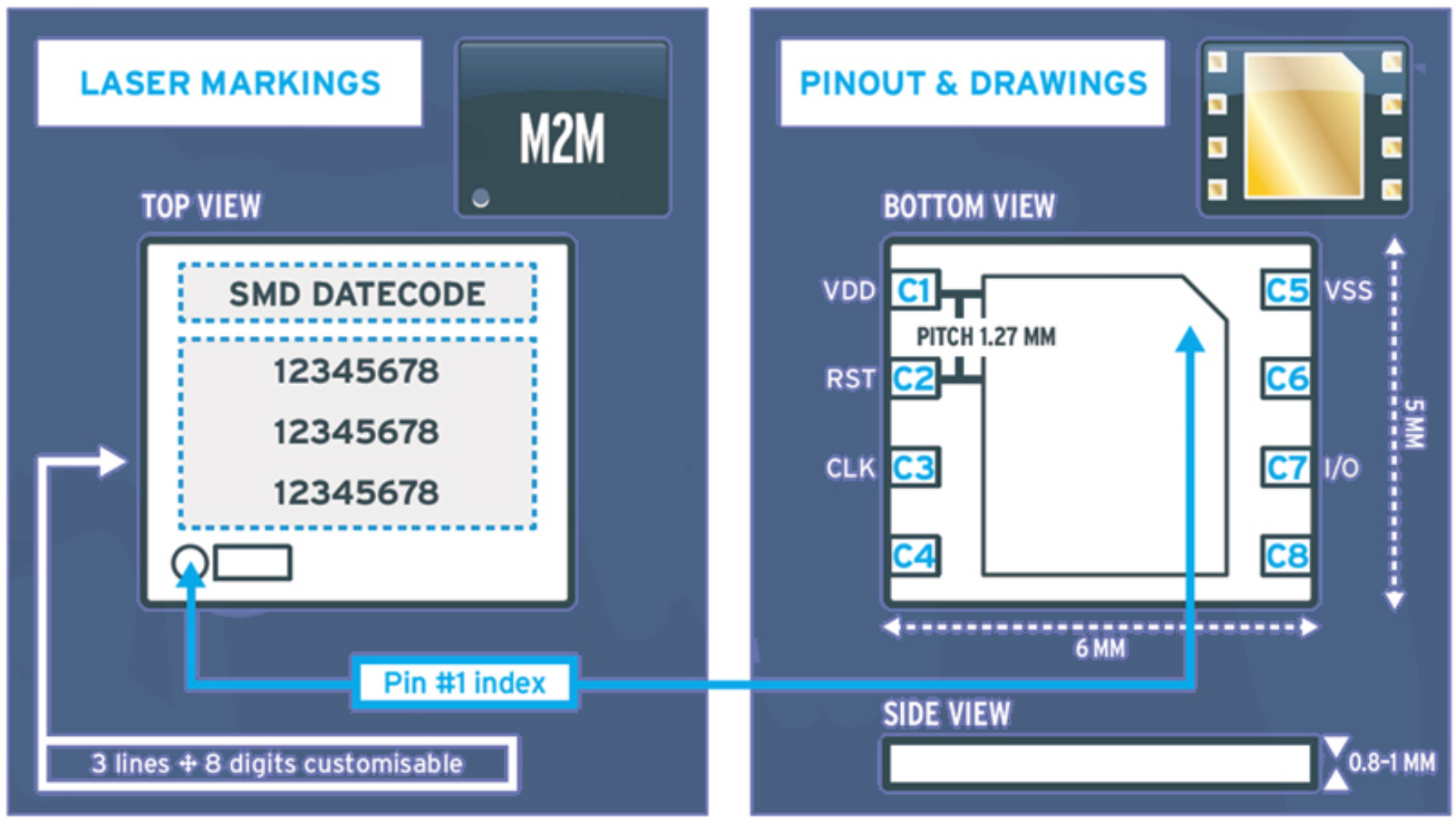


(TCNS SIM type as of 9/2020)

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.