

# Industrial M2M eSIM

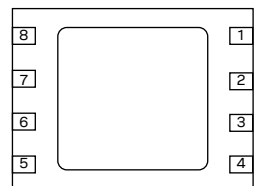
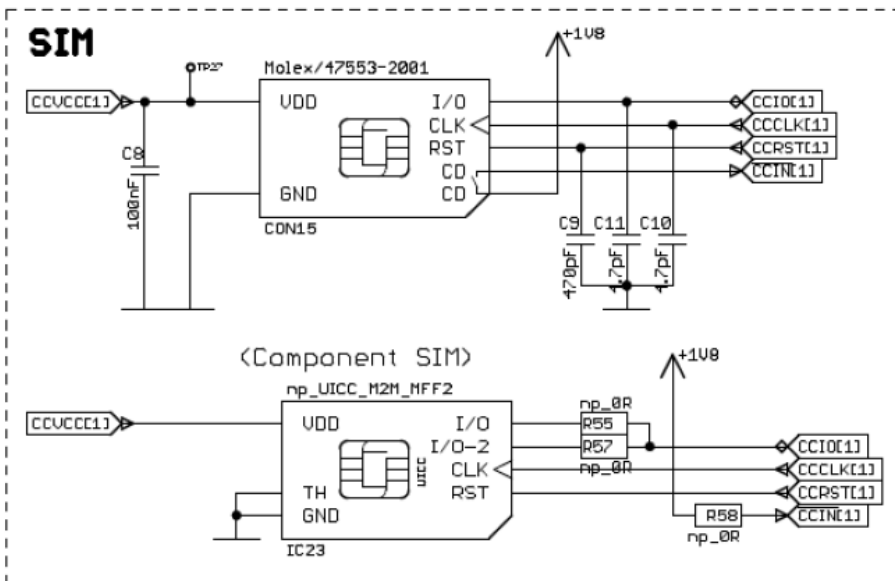


Enable your device to connect from almost anywhere in the world

**Unlock the power of MQTT Anywhere**

- Seamless global roaming on 2G/3G/LTE networks
- Low cost, fixed price pay-as-you-go plans with no monthly contract or roaming fees
- Available in the standard eSIM form factor: MFF2
- Extended operational temperature range -40 °C to +105 °C

MFF2 (QFN8) format, 6 x 5 x 0.8 mm  
(TS 102.671 standard format)



- Pin 1 = VSS
- Pin 3 = I/O
- Pin 6 = CLK
- Pin 7 = RST
- Pin 8 = VDD

**Product description**

The Thingstream Industrial M2M Embedded SIM is the key to enable your device to connect from almost anywhere in the world, and send and receive IoT messages using MQTT-SN, via the Thingstream Global Connectivity Platform.

In addition to the Thingstream Industrial M2M Embedded SIM, you'll need to integrate the Thingstream SDK with your application to enable your own devices to start working with Thingstream. You can download an appropriate build for your MCU from:

<https://portal.thingstream.io/app/downloads>



# Industrial M2M eSIM



## Chip features

CPU	16-bit , Intel 80251
Electrical characteristics	1.62 V to 5.5 V operating supply voltage ranges
Operational temperature characteristics	-40 °C to +105 °C
Memory size for program & data	504 kB SOLID FLASH™ + 12 kBytes RAM

## NVRAM characteristics

Endurance cycles (min) @25°	Min 500 k read/write cycle
Data retention (min) @25 °C	17 Years at 85 °C
Vibration	JEDEC JESD22-B103,20 to 2000Hz,20g peak acceleration
Moisture	JEDEC J-STD-20, MSL3 with 260°C peak temperature
Mechanical shock test	JEDEC JESD22-B104, 1500g acceleration at 0.5ms
Temperature / humidity bias	JEDEC JESD22-A101, 85°C, 85%RH, 1000
Stress test	Automotive Electronics Council (AEC) Q100
Sector/bank erase time	0.5 ms / 2 ms
Page / write erase time	4.0 ms / 16 ms

## Software features

Platform	Technology UICC Java Card Global platform	2G/3G/4G/LTE Release 8 2.2.1 2.1.1
Supported applications	Sim USim ISim HPSIM	Release 4 Release 8 Release 8 Release 8 (add on)
OTA capabilities	Remote file management Remote applet management	Release 8 Release 8
Authentication algorithms	2G comp 128-1,2,3 2G gsm milenage 3G milenage	All applicable according to profile

## Product variants

IM2M eSIM MFF2	MQTT Anywhere IM2M eSIM - MFF2 format
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## Further information

For contact information, see [www.u-blox.com/contact-us](http://www.u-blox.com/contact-us).

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