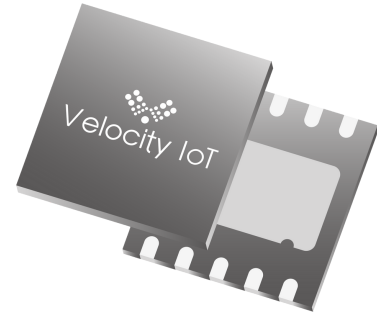## Multi-IMSI eUICC compliant eSIM card

About Velocity IoT

Say goodbye to "permanent roaming". Velocity's service is offered on leading tier-one cellular operators.. VIoT-Flex: One SIM for all carriers, with direct-to-carrier reliability & performance. Velocity IoT is the ultimate in choice and value.

Highlights

- Seamless global connectivity
- 2G,3G,4G, NB-IoT & 5G compliant
- Coverage in 190+ countries
- Over 600 carriers
- Dedicated support
- Security: lock IMSI to a SIM, block unauthorized devices & more
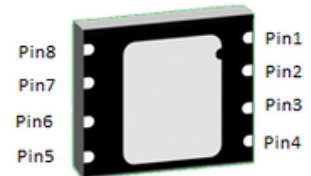
Software Features

- eUICC Release 12 product
- Java Card 3.0.5
- GlobalPlatform 2.2
- RAM HTTPS
- ISIM (IP Multimedia services Identify Module)
- EAP (Extensible Authentication Protocol)
- MBMS (Multimedia Broadcast /Multicast Service)
- EOL
- CAT-TP
- Extended logic channels
- TUAK algorithm
- CSIM
- Multi Cl

Hardware Features

- Flash: 704kB
- RAM: 20kB Static
- Operating Voltage: 1.62V- 5.5V
- Operating Internal Frequency up to 28 MHz
- Operating External Frequency
- 1-10MHz (Class A/B, 1-7.5MHz (Class C)
- Operating Temperature range: - 40 C to +105 C
- 25 years data retention at 25 C; 15 years at 85 C, 10 years at 105 C
- 500.000 Erase/Write cycles
- I/O ISO 7816-3 (T=)
- I/O speed: 8, 16, 31, 32, 64, 186, 372 clocks per ETU
- 16 bit Random Number Generator
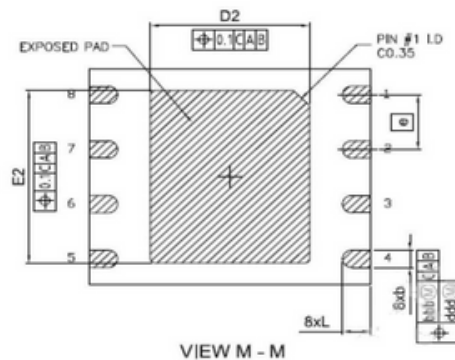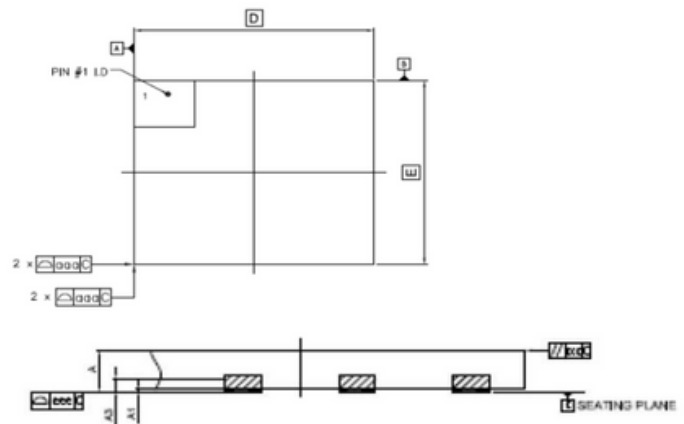- Up to 256 bit AES calculation in Hardware

Chip Pinout Information

MFF2	Designation	Function
Pin 8	VCC	Supply voltage
Pin 7	RST	Reset input
Pin 6	CLK	Clock input
Pin 5	AUX1/NC	Not used
Pin 1	GND	Ground
Pin 2	Vpp	Programming voltage (not used)
Pin 3	I/O	Input / output for serial communication
Pin 4	AUX2/NC	Not used

Chip Package Mechanical Data

DIM	Min	Normal	Max
A	0.550	0.600	0.650
A1	0.00		0.05
b	0.30	0.40	0.50
D	5.85	6.00	6.15
E	4.85	5.00	5.15
D2	3.30	3.40	3.50
E2	3.90	4.00	4.10
e		1.27	
L	0.45	0.60	0.75
aaa		0.10	
bbb		0.10	
Ccc		0.10	
ddd		0.05	
eee		0.08	

VIEW M – M

Ordering Information

Seamless global IoT connectivity- All four major US carriers included*

Product Group: VIoT-Flex
Ordering Number: VIOT-1SIM-MFF2

Available for purchase on www.digikey.com
Large volume orders: sales@velocityiot.io

*Currently 3 carriers available, 4th coming by Q1 2023

Benefits

One SIM multiple carriers

Coverage in 190 countries

Auto connect to strongest carrier

Connectivity Management

IoT Services & Support

Quick Time -to- market

All infrastructure is in place. Simple onboarding process

Multi-Layered Security

Security from multiple angles protects devices & data against threats

Improved Connectivity

Flexible IMSI switching & eUICC compliant

Regulatory Compliant

adheres to privacy regulations and fully complies with roaming restrictions

Open and Integrative

Advanced, unified REST API suite enables seamless integration to other systems / platforms

Elastic scaling

seamless scaling to suit your business growth