



SIMATIC IOT2050 SM; 2x Gbit Ethernet RJ45; S7-1200 SM port 1x USB2.0; 4 GB DDR, 16 GB eMMC; SD card slot; 24 V DC industrial power supply

General information	
Product type designation	IOT2050 SM
Installation type/mounting	
Design	IoT Gateway, built-in unit
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	5 ms
Processor	
Processor type	ARM TI AM6548 HS
Graphic	
Graphics controller	Integrated
Drives	
Slot for drives	1x microSD card slot
Memory	
Type of memory	DDR4
Main memory	4 GB RAM
Capacity of main memory, max.	4 Gbyte
Interfaces	
Interfaces/bus type	1x S7 1200 SM with plug-in connector
Number of industrial Ethernet interfaces	2
serial interface	1x COM (1x RS 232 / 422 / 485)
Industrial Ethernet	
• Industrial Ethernet interface	
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	Yes
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Fan	No
Degree and class of protection	
IP degree of protection	IP20
IP (all-round)	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes

cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes

Ambient conditions

Ambient temperature during operation

- min. -20 °C
- max. 50 °C

Ambient temperature during storage/transportation

- min. -20 °C
- max. 70 °C

Altitude during operation relating to sea level

- Installation altitude above sea level, max. 2 000 m

Relative humidity

- Operation, max. 85 %

Vibrations

- Vibration resistance during operation acc. to IEC 60068-2-6
tested in accordance with IEC 60068-2-6 operation: vibration load 1 g, 10 cycles per axle: • 5 to 8.4 Hz, deflection 3.5 mm • 8.4 to 200 Hz, acceleration 9.8 m/s² storage / transport : • 5 to 8.4 Hz: deflection 3.5 mm • 8.4 Hz to 500 Hz: acceleration 9.8 m/s²

Operating systems

pre-installed operating system	SIMATIC Industrial OS
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Mechanics/material

Enclosure material (front)	plastic
• Plastic	Yes
• Aluminum	Yes
• Stainless steel	Yes

Dimensions

Width	37 mm
Height	142 mm
Depth	100 mm

Classifications

	Version	Classification
eClass	14	19-20-01-02
eClass	12	19-20-01-02
eClass	9.1	19-20-01-02
eClass	9	19-20-01-02
eClass	8	19-20-01-02
eClass	7.1	19-20-01-02
eClass	6	19-20-01-02
ETIM	10	EC001413
ETIM	9	EC001413
ETIM	8	EC001413
ETIM	7	EC001413

Approvals / Certificates

General Product Approval

[Manufacturer Declaration](#)



General Product Approval



[KC](#)

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