



SIMATIC IOT2050; 1x M.2; 2x Gbit Ethernet RJ45; display port; 2x USB2.0; 16 GB eMMC; SD card slot; 24 V DC industrial power supply

General information	
Product type designation	IOT2050
Installation type/mounting	
Design	IoT Gateway, built-in unit
Supply voltage	
Type of supply voltage	12/24 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	2 GB RAM
Capacity of main memory, max.	2 Gbyte
Digital inputs	
Number of digital inputs	20
Input voltage	
• Type of input voltage	DC
Analog inputs	
Input ranges	
• Voltage	Yes; 0 ... 5 V
Interfaces	
Number of PROFINET interfaces	2
serial interface	1x COM (1x RS 232 / 422 / 485)
Video interfaces	
• Graphics interface	1x DisplayPort
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	
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	
EAC (formerly Gost-R)	Yes	
FCC	Yes	
Ecological footprint		
• environmental product declaration	Yes	
Global warming potential		
— global warming potential, (total) [CO2 eq]	196 kg	
— global warming potential, (during production) [CO2 eq]	18.7 kg	
— global warming potential, (during operation) [CO2 eq]	179 kg	
— global warming potential, (after end of life cycle) [CO2 eq]	-2.28 kg	
Ambient conditions		
Ambient temperature during operation		
• min.	0 °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 according to IEC 60068-2-6: 10 cycles; 5 to 8.4 Hz: deflection 3.5 mm; 8.4 to 200 Hz: acceleration 9.8 m/s ²	
Operating systems		
pre-installed operating system	SIMATIC Industrial OS	
without operating system	No	
Mechanics/material		
Enclosure material (front)	plastic	
• Plastic	Yes	
• Aluminum	Yes	
• Stainless steel	Yes	
• Glass	No	
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	Dangerous goods	Environment
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[Manufacturer Declaration](#)



[Dangerous goods information](#)



last modified:

4/3/2025