



SIMATIC IOT2050, 2x Gbit Ethernet RJ45; Display port; 2x USB2.0, 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 AM6528 GP
Graphic	
Graphics controller	Integrated
Graphics card	Yes
Drives	
Slot for drives	1x microSD card slot
Storage	
Type of memory	DDR4
Main memory	1 GB RAM
Capacity of main memory, max.	1 Gbyte
Digital inputs	
Number of digital inputs	20
Input voltage	
• Type of input voltage	DC
Digital outputs	
Number of digital outputs	20
Output voltage	
• Type of output voltage	DC
• permissible voltage at output, min.	3.3 V
• permissible voltage at output, max.	5 V
Interfaces	
Number of industrial Ethernet interfaces	2
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/s²	
Operating systems			
pre-installed operating system		No	
without operating system		Yes	
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	16	19-20-01-02
	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
IDEA	4	6606
UNSPSC	15	43-21-15-06

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)



EMV

Environment



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