



SIMATIC IOT2050; 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
Graphics card	Yes
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
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
Analog inputs	
Number of analog inputs	6
Input ranges	
• Voltage	Yes; 0 ... 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
<b>Industrial Ethernet</b>	
• Industrial Ethernet interface	
— 100 Mbps	Yes
— 1000 Mbps	Yes
<b>Interrupts/diagnostics/status information</b>	
LED status display	Yes
<b>Integrated Functions</b>	
<b>Monitoring functions</b>	
• Temperature monitoring	Yes
<b>Degree and class of protection</b>	
IP degree of protection	IP20
IP (all-round)	IP20
<b>Standards, approvals, certificates</b>	
CE mark	Yes
UL approval	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
FCC	Yes
<b>Ecological footprint</b>	
• environmental product declaration	Yes
<b>Global warming potential</b>	
— 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
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
• min.	0 °C
• max.	50 °C
<b>Ambient temperature during storage/transportation</b>	
• min.	-20 °C
• max.	70 °C
<b>Altitude during operation relating to sea level</b>	
• Installation altitude above sea level, max.	2 000 m
<b>Relative humidity</b>	
• Operation, max.	85 %
<b>Vibrations</b>	
• 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 <sup>2</sup>
<b>Operating systems</b>	
pre-installed operating system	SIMATIC Industrial OS
without operating system	No
<b>Mechanics/material</b>	
Enclosure material (front)	plastic
• Plastic	Yes
• Aluminum	Yes
• Stainless steel	Yes
• Glass	No
<b>Dimensions</b>	
Width	37 mm
Height	142 mm
Depth	100 mm
<b>Classifications</b>	

	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
IDEA	4	6606
UNSPSC	15	43-21-15-06

Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)



EMV	Dangerous goods	Environment
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[Dangerous goods information](#)

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[Test Summary Report UN 38.3](#)



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