



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
Memory	
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	
<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	No	
without operating system	Yes	
<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>		
	<b>Version</b>	<b>Classification</b>
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**

<b>General Product Approval</b>	<b>Test Certificates</b>
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[Special Test Certificate](#)

<b>Test Certificates</b>	<b>other</b>	<b>Dangerous goods</b>
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**Environment**



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