

SIMATIC IPC277G (nanopanel PC); 19" multi-touch (1920 x 1080); neutral front; 3x 10/100/1000 Mbps Ethernet RJ45; 2x display port graphic; 4x USB 3.1; 2x M.2 extension slot; 24 V industrial power supply 24 V DC industrial power supply



Figure similar

General information	
Product type designation	IPC277G
Display	
Design of display	19" TFT multi-touch
Screen diagonal	19 in
Resolution (pixels)	
• Horizontal image resolution	1 920 pixel
• Vertical image resolution	1 080 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Touch operation	
• Design as multi-touch screen	Yes; Projective-capacitive
Installation type/mounting	
Mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit
central design	Yes
Mounting in portrait format possible	Yes
Supply voltage	
Type of supply voltage	24 V DC
Rated value (DC)	24 V
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
Input current	
Current consumption (rated value)	1.9 A
Current consumption, max.	5 A
Processor	
Processor type	Intel Atom X6413E
Chipset	SoC
Graphic	
Graphics controller	Integrated
Drives	
SSD	Yes; 256 Eco
Memory	
Type of memory	DDR4 SO-DIMM
Main memory	8 GB RAM
Capacity of main memory, max.	8 Gbyte

Interfaces			
Number of industrial Ethernet interfaces	3; 3x Ethernet (RJ45)		
Video interfaces			
• Graphics interface	2x DisplayPort		
Industrial Ethernet			
• Industrial Ethernet interface			
— 100 Mbps	Yes		
— 1000 Mbps	Yes		
Protocols			
Protocols (Ethernet)			
• DHCP	Yes		
Interrupts/diagnostics/status information			
LED status display	No		
Integrated Functions			
Monitoring functions			
• Temperature monitoring	Yes		
• Fan	No		
• Monitoring function via network	Optional		
Degree and class of protection			
IP (at the front)	IP65		
IP (rear)	20		
Standards, approvals, certificates			
CE mark	Yes		
cULus	Yes		
RCM (formerly C-TICK)	Yes		
KC approval	Yes		
EAC (formerly Gost-R)	Yes		
FCC	Yes		
Ambient conditions			
Ambient temperature during operation			
• min.	0 °C		
• max.	50 °C; from 19", 22", 24": max. 45 °C		
Ambient temperature during storage/transportation			
• min.	-20 °C		
• max.	60 °C		
Relative humidity			
• Operation, max.	85 %		
Vibrations			
• Vibration resistance during operation acc. to IEC 60068-2-6	tested according to IEC 60068-2-6: 5 Hz to 8.4 Hz: 3.5 mm, 8.4 Hz to 200 Hz : 9.8m/s ² (1 g) (except DIN Rail) 10 Hz to 58 Hz: 0.0375 mm, 58 Hz to 500 Hz: 4.9 m/s ² (0.5 g) (DIN Rail)		
Operating systems			
pre-installed operating system	Windows 10 IoT Enterprise 2021 LTSC		
pre-installed operating system			
• Windows 10 Enterprise	Yes; Windows 10 IoT Enterprise 2021 LTSC		
Dimensions			
Width of the housing front	464 mm		
Height of housing front	294 mm		
Mounting cutout, width	448 mm		
Mounting cutout, height	278 mm		
Overall depth	105 mm		
Weights			
Weight, approx.	6.7 kg		
Classifications			
		Version	Classification
	eClass	14	19-20-01-03
	eClass	12	19-20-01-03
	eClass	9.1	19-20-01-03

eClass	9	19-20-01-03
eClass	8	27-24-23-01
eClass	7.1	27-24-23-01
eClass	6	27-24-23-01
ETIM	10	EC001414
ETIM	9	EC001414
ETIM	8	EC001414
ETIM	7	EC001414

Approvals / Certificates

General Product Approval

[Miscellaneous](#)

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