SIEMENS

Data sheet

6AV7230-0CA20-1CA0

SIMATIC IPC377E (Basicpanel PC) 12" Touch; Celeron N3160 (4C/4T); 4 GB RAM; 256 GB SSD; 1x Display-Port Graphic; 1x VGA-Port Graphic; 2x 10/100/1000 MBit/s Ethernet RJ45; 2x USB 3.0; 2x USB 2.0; 4x serial Ports (COM); 1x mPCIe-Slot; 1x mSATA-Slot; Windows 7 Ult. 64 bit; DC 24V power supply; panel mounting

Mounting Panel mount and VESA, horizontal and vertical Design Panel PC, built-in unit Supply voltage 24 V DC Mains buffering 10 ms • Mains/voltage failure stored energy time 10 ms Processor Processor Processor type Intel Celeron N3160 Drives SSD SSD Yes; 256 GB SSD Memory DDR3L Main memory 4 GB (pre-installed) Capacity of main memory, max. 8 Gbyte Hardware configuration Stots • free slots 1x mPCle (half-size), 1x mSATA (full-size) Interfaces 2x USB 2.0, 2x USB 3.0 (high current) Video interfaces 1x DisplayPort, 1x VGA Industrial Ethernet 1x DisplayPort, 1x VGA Industrial Ethernet interface 2 x Ethernet (RJ45) - 100 Mbps Yes Protocols (Ethernet) Yes	Installation type/mounting	
Supply voltage 24 V DC Mains buffering 10 ms • Mains/voltage failure stored energy time 10 ms Processor Processor type Processor type Intel Celeron N3160 Drives SSD SSD Yes; 256 GB SSD Memory DR3L Main memory 4 GB (pre-installed) Capacity of main memory, max. 8 Gbyte Hardware configuration Slots § free slots 1x mPCle (half-size), 1x mSATA (full-size) Interfaces 2; 2x RJ45 (independent) Video interfaces 2; 2x RJ45 (independent) Video interfaces 1x DisplayPort, 1x VGA Industrial Ethernet interface 1x DisplayPort, 1x VGA Industrial Ethernet interface 2 x Ethernet (RJ45) - 100 Mbps Yes Protocols Yes	Mounting	Panel mount and VESA, horizontal and vertical
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Industrial Ethernet • Industrial Ethernet interface 2 x Ethernet (RJ45) - 100 Mbps Yes - 1000 Mbps Yes Protocols Yes Protocols (Ethernet) Yes	Video interfaces	
Industrial Ethernet interface 2 x Ethernet (RJ45) - 100 Mbps Yes - 1000 Mbps Yes Protocols Protocols Protocols (Ethernet)	Graphics interface	1x DisplayPort, 1x VGA
- 100 Mbps Yes - 1000 Mbps Yes Protocols Yes	Industrial Ethernet	
- 1000 Mbps Yes Protocols Protocols (Ethernet)	 Industrial Ethernet interface 	2 x Ethernet (RJ45)
Protocols Protocols (Ethernet)	— 100 Mbps	Yes
Protocols (Ethernet)	— 1000 Mbps	Yes
	Protocols	
• TCP/IP Yes	Protocols (Ethernet)	
	• TCP/IP	Yes

Integrated Functions		
Monitoring functions		
Temperature monitoring	Yes	
Watchdog	Yes	
Status LEDs	POWER, HDD	
● Fan	No	
FMO		
EMC Interference immunity against discharge of static electric	sity	
Interference immunity against discharge of	±6 kV contact; ±8 kV air (to IEC 1000-4-2; ESD)	
static electricity		
 Interference immunity against discharge of 		
static electricity acc. to IEC 61000-4-2		
— Test voltage at air discharge	8 kV	
— Test voltage at contact discharge	6 kV	
Interference immunity against high-frequency electromagnetic fields		
 Interference immunity against high frequency 	10 V/m for 80 1 000 MHz, 80 % AM according to IEC 61000-4-	
radiation	3; 3 V/m for 1.4 6 GHz, 80 % AM according to IEC 61000-4-3	
Interference immunity to cable-borne interference		
 Interference immunity on supply cables 	±2 kV (according to IEC 61000-4-4, burst); ±1 kV (according to	
	IEC 61000-4-5, surge pulse/line to line); ±2 kV (according to IEC	
	61000-4-5, surge pulse/line to ground)	
 Interference immunity on signal cables >30m 	±2 kV acc. to IEC 61000-4-4, burst; ±2 kV acc. to IEC 61000-4-5,	
	surge	
Interference immunity on signal cables < 30m	±1 kV acc. to IEC 61000-4-4, Burst	
Interference immunity against voltage surge		
 asymmetric interference 	±2 kV acc. to IEC 61000-4-5, surge asymmetric	
symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric	
Interference immunity to magnetic fields		
• Interference immunity to magnetic fields at 50	100 A/m; to IEC 61000-4-8	
Hz		
Degree and class of protection		
IP (at the front)	IP65	
IP (rear)	IP40	
Standards, approvals, certificates		
CE mark	Yes	
UL approval	Yes	
cULus	Yes	
RCM (formerly C-TICK)	Yes	
EAC (formerly Gost-R)	Yes	
FCC	Yes	
Dust protection	Protection against foreign bodies > 1 mm	
Ambient conditions		

Ambient temperature during operation	
 Ambient temperature during operation 	0 to +45°C
• min.	0 °C
• max.	45 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
● max.	60 °C
Relative humidity	
 Relative humidity 	Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 $^{\circ}$ C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 $^{\circ}$ C (no condensation)
Vibrations	
 Vibration resistance during operation acc. to IEC 60068-2-6 	Tested according to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm; 58 Hz to 500 Hz 9.8 m/s ² (1g)
Shock testing	
 Shock load during operation 	Tested according to IEC 60068-2-27: 150 m/s ² , 11 ms
Operating systems	
Operating system	Windows 7 Ultimate (Multi-Language) 64-bit
pre-installed operating system	Yes
pre-installed operating system	
• Windows 7	Yes; Ultimate 64 bit, SP1
Dimensions	
Width	320 mm
Height	225.6 mm
Depth	95.2 mm
last modified:	05/17/2018