SIEMENS

Data sheet   6AV7230-0DA20-1CA0

SIMATIC IPC377E (Basicpanel PC) 15" 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

Installation type/mounting	
Mounting	Panel mount and VESA, horizontal and vertical
Design	Panel PC, built-in unit

Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
• Mains/voltage failure stored energy time	10 ms

Processor	
Processor type	Intel Celeron N3160

Drives	
SSD	Yes; 256 GB SSD

Memory	
Type of memory	DDR3L
Main memory	4 GB (pre-installed)
Capacity of main memory, max.	8 Gbyte

Hardware configuration	
Slots	
• free slots	1x mPCIe (half-size), 1x mSATA (full-size)

Interfaces	
Number of industrial Ethernet interfaces	2; 2x RJ45 (independent)
USB port	2x USB 2.0, 2x USB 3.0 (high current)
Video interfaces	
• Graphics interface	1x DisplayPort, 1x VGA
Industrial Ethernet	
• Industrial Ethernet interface	2 x Ethernet (RJ45)
— 100 Mbps	Yes
— 1000 Mbps	Yes

Protocols	
Protocols (Ethernet)	
• TCP/IP	Yes

Integrated Functions

Monitoring functions

• Temperature monitoring	Yes
• Watchdog	Yes
• Status LEDs	POWER, HDD
• Fan	No

EMC

Interference immunity against discharge of static electricity

• Interference immunity against discharge of static electricity	±6 kV contact; ±8 kV air (to IEC 1000-4-2; ESD)
• 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 radiation	10 V/m for 80 ... 1 000 MHz, 80 % AM according to IEC 61000-4-3; 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 Hz	100 A/m; to IEC 61000-4-8

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 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °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/s² (1g)
Shock testing	
• Shock load during operation	Tested according to IEC 60068-2-27: 150 m/s², 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	406 mm
Height	258.1 mm
Depth	103 mm
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