SIEMENS

## Data sheet 6AV7231-0FA31-2BA0

SIMATIC IPC377G (basic panel PC); 22" singletouch (1920 x 1080); 2x 10/100/1000 Mbps Ethernet RJ45; 2x DisplayPort graphic; 4x USB 3.1; 2x M.2 extension slot; 24 V DC power supply Atom x6413E (up to 3.0 GHz); 8 GB RAM; 4x USB+2x COM; Windows10 Enterprise 2019 LTSC, 64 bit; MUI (en,de,fr,it,es); 256 GB SSD; ;

| | |
|---|---|
| **General information** | |
| Product type designation | IPC377G |
| **Display** | |
| Design of display | 22" TFT touch |
| Screen diagonal | 22 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 touch screen | Yes; Analog-resistive |
| **Installation type/mounting** | |
| Mounting | Panel mount and VESA, horizontal and vertical |
| Design | Panel PC, built-in unit |
| central design | Yes |
| Mounting in portrait format possible | Yes |
| **Supply voltage** | |
| Type of supply voltage | 24 V DC |
| Mains buffering | |
| ● Mains/voltage failure stored energy time | 10 ms |
| **Processor** | |
| Processor type | Intel Atom X6413E |
| **Storage** | |
| Type of memory | DDR4 |
| Main memory | 4 GB, 8 GB,16 GB |
| Capacity of main memory, max. | 16 Gbyte |
| **Interfaces** | |
| Number of industrial Ethernet interfaces | 2; 2x RJ45 (independent) |
| Video interfaces | |
| ● Graphics interface | 2x DisplayPort |
| Industrial Ethernet | |
| ● Industrial Ethernet interface | |
| — 100 Mbps | Yes |
| — 1000 Mbps | Yes |
| **Protocols** | |
| Protocols (Ethernet) | |
| ● TCP/IP | Yes |
| **Interrupts/diagnostics/status information** | |
| LED status display | POWER, HDD |
| **Integrated Functions** | |
| Monitoring functions | |
| ● Temperature monitoring | Yes |
| ● Fan | No |
| **Degree and class of protection** | |
| IP (at the front) | IP65 |


Subject to change without notice
© Copyright Plcreadyship

| | |
|---|---|
| IP (rear) | IP40 |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| CSA approval | Yes |
| UL approval | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| FCC | Yes |
| BSMI | Yes |
| Dust protection | Protection against foreign bodies > 1 mm |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 50 °C; when installed vertically in horizontal format, vertical inclination maximum 45° or when installed upright in vertical format |
| Ambient temperature during storage/transportation | |
| ● min. | -20 °C |
| ● max. | 70 °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 500 Hz: 9.8 m/s² |
| **Operating systems** | |
| without operating system | Yes |
| pre-installed operating system | |
| ● Windows 10 Enterprise | Yes |
| **Dimensions** | |
| Width | 652 mm |
| Height | 443 mm |
| Depth | 209 mm |
| Width of the housing front | 539.79999 mm |
| Height of housing front | 334.39999 mm |
| Mounting cutout, width | 522.2 mm |
| Mounting cutout, height | 316.8 mm |
| mounting depth | 99.7 mm |
| **Weights** | |
| Weight, approx. | 7.1 kg |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 19-20-01-03 |
| 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**


© Copyright Plcreadyship

Miscellaneous

| General Product Approval | | | EMV | Dangerous goods | |
|---|---|---|---|---|---|
| | BIS CRS | | | Test Summary Report UN 38.3 | Dangerous goods information |

**last modified:** 6/10/2026


© Copyright Plcreadyship