SIEMENS

## Data sheet 6AV6645-0DD01-0AX1



Figure similar

**** Spare part *** Does not correspond to the current version of the standard. For use outside the EU SIMATIC Mobile Panel 277 IWLAN V2, configurable with WinCC flexible Standard Version 2008 or higher or TIA Portal V11 SP2 or higher incl. 1 main battery Power supply to be ordered separately: 6AV6671-5CE00-0AX1 charging station 6AV6671-5CN00-0AX2 tabletop power supply unit (EU/US/UK/JP)

| | |
|---|---|
| **General information** | |
| Product type designation | Mobile Panel 277 IWLAN V2 |
| Customer-specific configuration | Yes |
| **Display** | |
| Design of display | TFT |
| Screen diagonal | 7.5 in |
| Color display | Yes |
| Number of colors | 65 536 |
| Resolution (pixels) | |
| ● Horizontal image resolution | 640 pixel |
| ● Vertical image resolution | 480 pixel |
| Backlighting | |
| ● MTBF backlighting (at 25 °C) | 50 000 h |
| **Control elements** | |
| Control elements | Keys and touch |
| Keyboard | |
| ● Membrane keyboard | |
| — user-definable label membrane keys | Yes |
| ● Function keys | |
| — Number of function keys | 18 |
| — Number of function keys with LEDs | 18 |
| ● Keys with LED | Yes |
| ● Numeric keyboard | Yes |
| ● alphanumeric keyboard | Yes |
| ● Multi-key operation | Yes |
| — Number of multi-key operations | 2 |
| Touch operation | |
| ● Design as touch screen | Yes; analog, resistive |
| Connection type | |
| ● Type of connection for mouse/keyboard/barcode reader | USB / USB / USB |
| Special operator controls | |
| ● Stop button | No |
| ● Acknowledgement button | No |
| ● Key-operated switch | No |
| ● Illuminated pushbutton | No |
| ● Handwheel | No |
| **Supply voltage** | |
| Design of the power supply | Via charging station or table power supply |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| Type of supply voltage | DC |
| **Processor** | |
| Processor type | ARM, 520 MHz |
| **Storage** | |
| Type of memory | Flash / RAM |
| Memory available for user data | 6 Mbyte |
| Capacity of main memory, max. | 128 Mbyte |
| **Accumulator** | |
| Main rechargeable battery | |
| ● Rated voltage | 7.2 V |
| ● Capacity | 5 100 mA·h |
| ● Number of loading cycles, min | 500 |
| ● Charging time, typ. | 4 h |
| ● Operating time, typ. | 4 h |
| ● Display for battery capacity | Yes |
| ● Energy-saving mode | Yes |
| ● Battery replacement during operation | Yes |
| **Type of output** | |
| Power LED | Yes |
| LED for communication | Yes |
| LED for battery | Yes |
| Vibrations | Yes |
| **Time of day** | |
| Clock | |
| ● Hardware clock (real-time) | Yes |
| ● retentive | Yes |
| ● synchronizable | Yes |
| **Interfaces** | |
| Interfaces/bus type | 1x Ethernet (RJ45) |
| Number of industrial Ethernet interfaces | 1 |
| Number of RS 485 interfaces | 0 |
| Number of RS 422 interfaces | 0 |
| Number of USB interfaces | 1 |
| Number of wireless interfaces | 1 |
| Multimedia card/SD card slot | 1 MMC/SD card slot |
| WLAN | |
| ● Wireless LAN | Yes |
| ● Supports rapid roaming | Yes |
| **Protocols** | |
| Supports protocol for PROFINET IO | Yes |
| PROFIsafe | No |
| PROFIBUS | No |
| Protocols (Ethernet) | |
| ● TCP/IP | Yes |
| Further protocols | |
| ● MODBUS | Yes; Modicon (MODBUS TCP/IP) |
| ● other bus systems | Yes; Allen-Bradley E/IP C.Logix |
| **Communication functions** | |
| Wireless communication | |
| ● supported standards | |
| — Radio standard WLAN 802.11 | Yes |
| **EMC** | |
| Emission of radio interference acc. to EN 55 011 | |
| ● Limit class A, for use in industrial areas | Yes; The product is designed for use in industrial environments. When used in residential areas, the emission of radio interference according to limit class B of EN 55011 must be ensured. For further information refer to the user documentation |
| **Standards, approvals, certificates** | |
| Certificate of suitability | cULus, RCM (former C-TICK) |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| CE mark | No |
| cULus | Yes |
| RCM (formerly C-TICK) | Yes |
| Suitable for safety functions | No |
| **Ambient conditions** | |
| Free fall | |
| ● Fall height, max. | 1.2 m |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 40 °C |
| Ambient temperature during storage/transportation | |
| ● min. | -20 °C |
| ● max. | 60 °C |
| Relative humidity | |
| ● Operation, max. | 80 % |
| **Operating systems** | |
| pre-installed operating system | Windows CE |
| **Configuration** | |
| Message indicator | Yes |
| Alarm system (incl. buffer and acknowledgment) | Yes |
| Process value display (output) | Yes |
| Process value default (input) possible | Yes |
| Recipe management | Yes |
| Configuration software | |
| ● Configuration tool | WinCC flexible Standard Version 2008 SP2 and higher (to be ordered separately) |
| ● WinCC flexible Compact | No |
| ● WinCC flexible Standard | Yes |
| ● WinCC flexible Advanced | No |
| ● WinCC Basic (TIA Portal) | No |
| ● WinCC Comfort (TIA Portal) | Yes; V11 SP2 or higher |
| ● WinCC Advanced (TIA Portal) | Yes; V11 SP2 or higher |
| ● WinCC Professional (TIA Portal) | Yes; V11 SP2 or higher |
| **Languages** | |
| Online languages | |
| ● Number of online/runtime languages | 16 |
| Project languages | |
| ● Languages per project | 32 |
| **Functionality under WinCC (TIA Portal)** | |
| Libraries | Yes |
| Applications/options | Internet Explorer, Sm@rtService, Sm@rtAccess |
| ● Web browser | Yes |
| ● SIMATIC WinCC Sm@rtServer | Yes |
| Number of Visual Basic Scripts | Yes |
| Task planner | Yes |
| Help system | Yes |
| ● Number of characters per info text | 70 |
| Message system | |
| ● Number of alarm classes | 32 |
| ● Bit messages | Yes |
| — Number of bit messages | 4 000 |
| ● Analog messages | Yes |
| — Number of analog messages | 4 000 |
| ● System messages HMI | Yes |
| ● System messages PLC | Yes |
| ● Lines | 1 |
| ● Number of characters per message | 80 |
| ● Number of process values per message | 8 |
| ● Acknowledgment groups | |


© Copyright Siemens

| | |
|---|---|
| — Number of acknowledgement groups | 99 |
| ● Message indicator | Yes |
| ● First/last value | Yes |
| Recipe management | |
| ● Number of recipes | 300 |
| ● Data records per recipe | 500 |
| ● Entries per data record | 1 000 |
| ● Recipe memory | 64 KB integrated Flash, expandable |
| Variables | |
| ● Number of variables per device | 2 048 |
| ● Number of variables per screen | 200 |
| ● Number of variables | 1 000 |
| ● Initial values | 2 048 |
| ● Type Date & Time | 2 048 |
| ● Limit values | Yes |
| ● Multiplexing | Yes |
| ● Structures | Yes |
| Images | |
| ● Number of configurable images | 500 |
| ● Permanent window/default | Yes |
| ● Start screen configurable | Yes |
| ● Image selection by PLC | Yes |
| ● Image number in the PLC | Yes |
| Image objects | |
| ● Text objects | 10 000 text elements |
| ● Number of I/O fields per image | 200 |
| ● Number of date/time fields | 200 |
| ● Return | Yes |
| ● Graphics object | Bit maps, icons, vector graphics |
| — Icons | 1 000 |
| Complex image objects | |
| ● Status/control | Yes; With SIMATIC S7 |
| ● dynamic objects | Diagrams, bar graphs, sliders, analog display, invisible buttons |
| — Number of objects per project | 1 000 |
| — Number of curve diagrams per image | 10 |
| ● Methods | Trend / profile |
| ● Bar graphs | |
| — Number of bars per chart | 10 |
| ● Sliders | |
| — Number of slides per image | 10 |
| ● Pointer instruments | |
| — Number of analog indicators per image | 10 |
| ● Limit value lines | Yes |
| ● Number of alphanumerical fields | 300 |
| — alphanumeric fields per image | 200 |
| ● Number of numerical fields | 2 048 |
| — numerical fields per image | 200 |
| ● Number of password fields | 2 048 |
| ● Number of visible switches per project | 200 |
| — visible switches per image | 200 |
| — hidden switches per image | 200 |
| ● Number of status switches per project | 200 |
| — Number of status switches per image | 200 |
| ● Number of selector switches per project | 200 |
| — Selector switches per image | 200 |
| ● Number of decade switches per project | 200 |
| — Decade switches per image | 200 |
| ● Number of signal lamps per project | 200 |
| — Signal lamps per image | 200 |


© Copyright Siemens

| | |
|---|---|
| Attributes for dynamic objects | |
| ● Color change | Yes |
| ● X/Y movement | Yes |
| ● Hide | Yes |
| Lists | |
| ● Number of text lists per project | 500 |
| ● Number of text lists per image | 200 |
| ● Number of entries per text list | 256 |
| ● Number of graphics lists per project | 400 |
| ● Number of graphic lists per image | 200 |
| ● Number of entries per graphics list | 256 |
| Archiving | |
| ● Number of archives per device | 20 |
| ● Number of measuring points per project | 20 |
| ● Number of entries per archive | 10 000 |
| ● Message archive | Yes |
| ● Process value archive | Yes |
| ● Archiving methods | |
| — Sequential archive | Yes |
| — Short-term archive | Yes |
| ● Memory location | MultiMediaCard |
| ● Data storage format | |
| — CSV | Yes |
| ● Online evaluation | |
| — using trend curves | Yes |
| Filters | |
| ● cyclic | Yes |
| ● Tolerance | Yes |
| ● Change | Yes |
| Security | |
| ● Number of user groups | 50 |
| ● Number of user rights | 32 |
| ● Password export/import | Yes |
| Logging through printer | |
| ● Recording/Printing | Alarms, report (shift report), PROFINET |
| Transfer (upload/download) | |
| ● Transfer of configuration | USB, Ethernet, automatic transfer recognition |
| ● Wireless LAN | Yes |
| Process coupling | |
| ● Connection to controller | S7-200, S7- 300/400 see section on "System interfaces" |
| ● S7-1200 | Yes |
| ● S7-1500 | Yes |
| ● S7-200 | Yes |
| — Ethernet | Yes |
| ● S7-300/400 | Yes |
| — PROFINET | Yes |
| ● LOGO! | Yes |
| ● SIMOTION | Yes |
| ● Allen Bradley (EtherNet/IP) | Yes |
| ● Mitsubishi (MC TCP/IP) | Yes; WinCC V11 SP2 or higher |
| ● Modicon (Modbus TCP/IP) | Yes |
| ● Zones | Yes |
| — Number of zones per project, max. | 254 |
| — Number of transponders for zones per project, max. | 255 |
| ● Transponder | Yes |
| — Number of transponders per project, max. | 256 |
| — adjustable distance range | Yes |
| — adjustable distance, min. | 2 m |
| — adjustable distance, max. | 8 m |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| **Functions** | |
| ● TAB sequence | Yes |
| ● Calculating functions | Yes |
| ● Animate | Yes |
| **Service tools/configuration aids** | |
| ● Clean screen | Yes |
| ● Touch calibration | Yes |
| ● Backup/Restore manually | Yes |
| ● Simulation | Yes |
| ● Device switchover | Yes |
| ● Delta transfer | Yes |
| **Peripherals/Options** | |
| Peripherals | Barcode reader |
| SIMATIC HMI MM memory card: Multi Media Card | Yes |
| SIMATIC HMI SD memory card: Secure Digital memory card | Yes |
| USB memory | Yes |
| Additional software components loadable | Yes |
| **Mechanics/material** | |
| Enclosure material (front) | plastic |
| **Dimensions** | |
| Enclosure diameter | 290 mm |
| Depth of housing | 103 mm |
| **Weights** | |
| Weight (without packaging) | 2.2 kg |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-33-02-02 |
| eClass | 14 | 27-33-02-02 |
| eClass | 12 | 27-33-02-02 |
| eClass | 9.1 | 27-33-02-02 |
| eClass | 9 | 27-33-02-02 |
| eClass | 8 | 27-24-23-03 |
| eClass | 7.1 | 27-24-23-03 |
| eClass | 6 | 27-24-23-03 |
| ETIM | 10 | EC001427 |
| ETIM | 9 | EC001427 |
| ETIM | 8 | EC001427 |
| ETIM | 7 | EC001427 |
| IDEA | 4 | 6607 |
| UNSPSC | 15 | 43-21-15-06 |

**Approvals / Certificates**

| General Product Approval | | | | | Radio Equipment Type Approval Certificate |
|---|---|---|---|---|---|
| Miscellaneous | Manufacturer Declaration | | | China RoHS | Miscellaneous |

| Radio Equipment Type Approval Certificate | | Test Certificates | Dangerous goods |
|---|---|---|---|
| Type Examination Certificate | Miscellaneous | Miscellaneous | Dangerous goods information |


© Copyright Siemens

**last modified:** 11/24/2025


Subject to change without notice
© Copyright Siemens