



Figure similar

\*\*\*\* Spare part \*\*\* Does not correspond to the current version of the standard. For use outside the EU SIMATIC Mobile Panel 277F IWLAN V2, with integrated acknowledgment button, emergency stop button, handwheel key-operated switch and two illuminated pushbuttons, supports IPCF (rapid roaming) configurable with WinCC flexible Standard Version 2008 SP 2 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                              |                                            |
| • Emergency stop button (forced blocking)              | Yes                                        |
| • Acknowledgement button                               | Yes                                        |
| • Key-operated switch                                  | Yes                                        |
| • Illuminated pushbutton                               | Yes                                        |
| • Handwheel                                            | Yes                                        |
| Supply voltage                                         |                                            |
| Design of the power supply                             | Via charging station or table power supply |

|                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of supply voltage                                                                                                                                                                                                                                                                              | DC                                                                                                                                                                                                                                                  |
| <b>Processor</b>                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                     |
| Processor type                                                                                                                                                                                                                                                                                      | ARM, 520 MHz                                                                                                                                                                                                                                        |
| <b>Storage</b>                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                     |
| Type of memory                                                                                                                                                                                                                                                                                      | Flash / RAM                                                                                                                                                                                                                                         |
| Memory available for user data                                                                                                                                                                                                                                                                      | 6 Mbyte                                                                                                                                                                                                                                             |
| Capacity of main memory, max.                                                                                                                                                                                                                                                                       | 128 Mbyte                                                                                                                                                                                                                                           |
| <b>Accumulator</b>                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                     |
| Main rechargeable battery                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>Rated voltage</li> <li>Capacity</li> <li>Number of loading cycles, min</li> <li>Charging time, typ.</li> <li>Operating time, typ.</li> <li>Display for battery capacity</li> <li>Energy-saving mode</li> <li>Battery replacement during operation</li> </ul> | 7.2 V<br>5 100 mA·h<br>500<br>4 h<br>4 h<br>Yes<br>Yes<br>Yes                                                                                                                                                                                       |
| <b>Type of output</b>                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                     |
| Power LED                                                                                                                                                                                                                                                                                           | Yes                                                                                                                                                                                                                                                 |
| LED for safe                                                                                                                                                                                                                                                                                        | Yes                                                                                                                                                                                                                                                 |
| LED for communication                                                                                                                                                                                                                                                                               | Yes                                                                                                                                                                                                                                                 |
| LED for battery                                                                                                                                                                                                                                                                                     | Yes                                                                                                                                                                                                                                                 |
| Vibrations                                                                                                                                                                                                                                                                                          | Yes                                                                                                                                                                                                                                                 |
| <b>Time of day</b>                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                     |
| Clock                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>Hardware clock (real-time)</li> <li>retentive</li> <li>synchronizable</li> </ul>                                                                                                                                                                             | Yes<br>Yes<br>Yes                                                                                                                                                                                                                                   |
| <b>Interfaces</b>                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     |
| 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                                                                                                                                                                                                                                  |
| <b>WLAN</b>                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>Wireless LAN</li> <li>Supports rapid roaming</li> </ul>                                                                                                                                                                                                      | Yes<br>Yes                                                                                                                                                                                                                                          |
| <b>Protocols</b>                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                     |
| Supports protocol for PROFINET IO                                                                                                                                                                                                                                                                   | Yes                                                                                                                                                                                                                                                 |
| PROFIsafe                                                                                                                                                                                                                                                                                           | Yes                                                                                                                                                                                                                                                 |
| PROFIBUS                                                                                                                                                                                                                                                                                            | No                                                                                                                                                                                                                                                  |
| <b>Protocols (Ethernet)</b>                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>TCP/IP</li> </ul>                                                                                                                                                                                                                                            | Yes                                                                                                                                                                                                                                                 |
| <b>Further protocols</b>                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>MODBUS</li> <li>other bus systems</li> </ul>                                                                                                                                                                                                                 | No<br>No                                                                                                                                                                                                                                            |
| <b>Communication functions</b>                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                     |
| <b>Wireless communication</b>                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>supported standards               <ul style="list-style-type: none"> <li>Radio standard WLAN 802.11</li> </ul> </li> </ul>                                                                                                                                   | Yes                                                                                                                                                                                                                                                 |
| <b>EMC</b>                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                     |
| <b>Emission of radio interference acc. to EN 55 011</b>                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>Limit class A, for use in industrial areas</li> </ul>                                                                                                                                                                                                        | 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 |
| <b>Standards, approvals, certificates</b>                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                     |

|                                                   |                                                                                |
|---------------------------------------------------|--------------------------------------------------------------------------------|
| Certificate of suitability                        | cULus, RCM (former C-TICK)                                                     |
| CE mark                                           | No                                                                             |
| cULus                                             | Yes                                                                            |
| RCM (formerly C-TICK)                             | Yes                                                                            |
| Suitable for safety functions                     | Yes                                                                            |
| TÜV safety certification                          | Yes                                                                            |
| Highest safety class achievable in safety mode    |                                                                                |
| • Performance level according to ISO 13849-1      | e                                                                              |
| • SIL acc. to IEC 61508                           | SIL 3                                                                          |
| 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                   |                                                                  |
| — 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 alphanumeric 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                                                                 |
| 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; As of V13 SP1 Update 4, PROFI-safe communication also possible |
| • S7-200                                                        | Yes                                                                 |
| — Ethernet                                                      | Yes                                                                 |
| • S7-300/400                                                    | Yes                                                                 |
| — PROFINET                                                      | Yes                                                                 |
| • SIMOTION                                                      | Yes; WinCC flexible 2008 SP3 or higher                              |
| • Zones                                                         | Yes                                                                 |
| — Number of zones per project, max.                             | 254                                                                 |
| — Number of transponders for zones per project, max.            | 255                                                                 |
| • Effective range                                               | Yes                                                                 |
| — Number of effective ranges per project, max.                  | 127                                                                 |
| — Number of transponders for effective ranges per project, max. | 127                                                                 |



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