



Figure similar

SIMATIC MOBILE PANEL 277F IWLAN V2 (USA), WITH INTEGR. ENABL.-PUSHBUTTON EMERG.-STOP BUTTON, HANDWHEEL, KEY SWITCH AND TWO ILLUMINATED PUSHBUTTON, SUPPORTING IPCF RAPID ROAMING CONFIGURABLE W. WINCC FLEXIBLE STANDARD WITH VERSION 2008 OR TIA PORTAL V11 SP2 INCL. 1 MAIN BATTERY POWER SUPPLY TO BE ORDERED SEPARATELY: 6AV6671-5CE00-0AX1 CHARGING ST. 6AV6671-5CN00-0AX2 EXTERNAL POWER SUPPLY UNIT (EU/US/UK/JP)

| General information             |                |
|---------------------------------|----------------|
| 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 fonts                  |                |
| • 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                                          |
| <b>Touch operation</b>                                 |                                            |
| • Design as touch screen                               | Yes; analog, resistive                     |
| <b>Connection type</b>                                 |                                            |
| • Type of connection for mouse/keyboard/barcode reader | USB / USB / USB                            |
| <b>Special operator controls</b>                       |                                            |
| • Emergency stop button (forced blocking)              | Yes                                        |
| • Acknowledgement button                               | Yes                                        |
| • Key-operated switch                                  | Yes                                        |
| • Illuminated pushbutton                               | Yes                                        |
| • Handwheel                                            | Yes                                        |
| <b>Supply voltage</b>                                  |                                            |
| 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>Memory</b>                                          |                                            |
| Type of memory                                         | Flash / RAM                                |
| Memory available for user data                         | 6 Mbyte                                    |
| Capacity of main memory, max.                          | 128 Mbyte                                  |
| <b>Type of output</b>                                  |                                            |
| Status LEDs                                            | Yes                                        |
| Power LED                                              | Yes                                        |
| <b>Time of day</b>                                     |                                            |
| <b>Clock</b>                                           |                                            |
| • Hardware clock (real-time)                           | Yes                                        |
| • retentive                                            | Yes                                        |
| • synchronizable                                       | Yes                                        |
| <b>Interfaces</b>                                      |                                            |
| Interfaces/bus type                                    | 1 x Ethernet (RJ45)                        |
| Number of RS 485 interfaces                            | 0                                          |

|                                                         |                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of USB interfaces                                | 1                                                                                                                                                                                                                                                   |
| Number of wireless interfaces                           | 1                                                                                                                                                                                                                                                   |
| Multimedia card/SD card slot                            | 1 MMC/SD card slot                                                                                                                                                                                                                                  |
| <b>Industrial Ethernet</b>                              |                                                                                                                                                                                                                                                     |
| • Industrial Ethernet interface                         | 1 x Ethernet (RJ45)                                                                                                                                                                                                                                 |
| <b>WLAN</b>                                             |                                                                                                                                                                                                                                                     |
| • Wireless LAN                                          | Yes                                                                                                                                                                                                                                                 |
| • Supports rapid roaming                                | Yes                                                                                                                                                                                                                                                 |
| <b>Protocols</b>                                        |                                                                                                                                                                                                                                                     |
| PROFINET                                                | Yes                                                                                                                                                                                                                                                 |
| Supports protocol for PROFINET IO                       | Yes                                                                                                                                                                                                                                                 |
| PROFIsafe                                               | Yes                                                                                                                                                                                                                                                 |
| PROFIBUS                                                | No                                                                                                                                                                                                                                                  |
| <b>Protocols (Ethernet)</b>                             |                                                                                                                                                                                                                                                     |
| • TCP/IP                                                | Yes                                                                                                                                                                                                                                                 |
| <b>Further protocols</b>                                |                                                                                                                                                                                                                                                     |
| • MODBUS                                                | No                                                                                                                                                                                                                                                  |
| • other bus systems                                     | No                                                                                                                                                                                                                                                  |
| <b>EMC</b>                                              |                                                                                                                                                                                                                                                     |
| <b>Emission of radio interference acc. to EN 55 011</b> |                                                                                                                                                                                                                                                     |
| • 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 |
| <b>Degree and class of protection</b>                   |                                                                                                                                                                                                                                                     |
| Degree of protection acc. to EN 60529                   | IP65                                                                                                                                                                                                                                                |
| <b>Standards, approvals, certificates</b>               |                                                                                                                                                                                                                                                     |
| Certifications                                          | cULus, RCM (former C-TICK)                                                                                                                                                                                                                          |
| CE mark                                                 | No                                                                                                                                                                                                                                                  |
| cULus                                                   | Yes                                                                                                                                                                                                                                                 |
| RCM (formerly C-TICK)                                   | Yes                                                                                                                                                                                                                                                 |
| Suitable for safety functions                           | Yes                                                                                                                                                                                                                                                 |
| TÜV safety certification                                | Yes                                                                                                                                                                                                                                                 |
| <b>Highest safety class achievable in safety mode</b>   |                                                                                                                                                                                                                                                     |
| • Performance level according to ISO 13849-1            | e                                                                                                                                                                                                                                                   |
| • SIL acc. to IEC 61508                                 | SIL 3                                                                                                                                                                                                                                               |
| <b>Ambient conditions</b>                               |                                                                                                                                                                                                                                                     |
| <b>Free fall</b>                                        |                                                                                                                                                                                                                                                     |
| • Fall height, max.                                     | 1.2 m                                                                                                                                                                                                                                               |
| <b>Ambient temperature during operation</b>             |                                                                                                                                                                                                                                                     |
| • 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                                   |
| 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                                                                             |
| • Number of messages                              | 4 000                                                                          |
| • 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                                                              |
| <b>Recipe management</b>               |                                                                  |
| • Number of recipes                    | 300                                                              |
| • Data records per recipe              | 500                                                              |
| • Entries per data record              | 1 000                                                            |
| • Recipe memory                        | 64 KB integrated Flash, expandable                               |
| <b>Variables</b>                       |                                                                  |
| • 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                                                              |
| <b>Images</b>                          |                                                                  |
| • Number of configurable images        | 500                                                              |
| • Permanent window/default             | Yes                                                              |
| • Start screen configurable            | Yes                                                              |
| • Image selection by PLC               | Yes                                                              |
| • Image number in the PLC              | Yes                                                              |
| <b>Image objects</b>                   |                                                                  |
| • 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                                                            |
| <b>Complex image objects</b>           |                                                                  |
| • 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             |
| 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                                                                 |
| <b>Filters</b>                          |                                                                     |
| • cyclic                                | Yes                                                                 |
| • Tolerance                             | Yes                                                                 |
| • Change                                | Yes                                                                 |
| <b>Security</b>                         |                                                                     |
| • Number of user groups                 | 50                                                                  |
| • Number of user rights                 | 32                                                                  |
| • Password export/import                | Yes                                                                 |
| <b>Logging through printer</b>          |                                                                     |
| • Recording/Printing                    | Alarms, report (shift report), PROFINET                             |
| <b>Transfer (upload/download)</b>       |                                                                     |
| • Transfer of configuration             | USB, Ethernet, automatic transfer recognition                       |
| <b>Process coupling</b>                 |                                                                     |
| • 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                              |
| <b>Functions</b>                        |                                                                     |
| • TAB sequence                          | Yes                                                                 |
| • Calculating functions                 | Yes                                                                 |
| • Animate                               | Yes                                                                 |
| <b>Service tools/configuration aids</b> |                                                                     |
| • Clean screen                          | Yes                                                                 |
| • Touch calibration                     | Yes                                                                 |
| • Backup/Restore manually               | Yes                                                                 |
| • Simulation                            | Yes                                                                 |
| • Device switchover                     | Yes                                                                 |

- Delta transfer

Yes

## Peripherals/Options

### Peripherals

- SIMATIC HMI MM memory card: Multi Media Card
- SIMATIC HMI SD memory card: Secure Digital memory card
- USB memory

Barcode reader

Yes

Yes

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

## Other

free hotline

Yes

Warranty period

1 y

**last modified:**

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