## SIEMENS

## Data sheet

## 6AV6645-0GB01-0AX1



\*\*\*\* Spare part \*\*\* Does not correspond to the current version of the standard. SIMATIC Mobile Panel 277F IWLAN V2 (USA), with integrated acknowledgment button and emergency stop button, supports IPCF rapid roaming 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)

Figure similar

General information	
Product type designation	Mobile Panel 277F 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)	
<ul> <li>Horizontal image resolution</li> </ul>	640 pixel
<ul> <li>Vertical image resolution</li> </ul>	480 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h
Control elements	
Control elements	Keys and touch
Keyboard fonts	
<ul> <li>Membrane keyboard</li> </ul>	
<ul> <li>— user-definable label membrane keys</li> </ul>	Yes
<ul> <li>Function keys</li> </ul>	
<ul> <li>— Number of function keys</li> </ul>	18
<ul> <li>— Number of function keys with LEDs</li> </ul>	18
<ul> <li>Keys with LED</li> </ul>	Yes
<ul> <li>Numeric keyboard</li> </ul>	Yes
<ul> <li>alphanumeric keyboard</li> </ul>	Yes
<ul> <li>Multi-key operation</li> </ul>	Yes
<ul> <li>— Number of multi-key operations</li> </ul>	2
Touch operation	
Design as touch screen	Yes; analog, resistive
Connection type	
<ul> <li>Type of connection for mouse/keyboard/barcode reader</li> </ul>	USB / USB / USB
Special operator controls	
<ul> <li>Emergency stop button (forced blocking)</li> </ul>	Yes
<ul> <li>Acknowledgement button</li> </ul>	Yes
<ul> <li>Key-operated switch</li> </ul>	No
<ul> <li>Illuminated pushbutton</li> </ul>	No
Handwheel	No

Design of the power supply         Via charging station of table power supply           Type of supply voltage         DC           Processor type         ARM, 520 MHz           Memory         Flash / RAM           Memory available for user data         0 Mkyle           Capacity of main memory, max.         128 Mkyle           Capacity of main memory, max.         128 Mkyle           Capacity of main memory, max.         128 Mkyle           Capacity of the power supply         Yes           - Radid voltage         7 L V           - Capacity for the power supply         Yes           - Capacity for the power supply         Yes           - Capacity for the power supply         Yes           - Early - saving mode         Yes	Supply voltage	
Type of supply voltage         DC           Processor         ARM. 520 MHz           Memory         Flash / RAM           Memory available for user data         6 Mbyte           Capacity of mannemory, max.         128 Mbyte           Accumulation         6 Mbyte           Capacity of mannemory, max.         128 Mbyte           Accumulation         72 V           Ratid voltage         72 V           • Ratid voltage         72 V           • Capacity         5100 mA h           • Number of loading cycles, min         500           • Charging time, typ.         4 h           • Operating time, typ.         4 h           • Display for battery capacity         Yes           • Early replacement during operation         Yes           • Dattery         Yes           LED for sommunication         Yes           LED for sommunication         Yes           • Trake of day         Cfeak           • Interfaces bis instraces         1           • Interfaces bis instraces         1           • Number of NS 485 instr		Via charging station or table power supply
Processor         Processor type         ARM, 520 MHz           Processor type         ARM, 520 MHz           Memory         Flash / RAM           Wernoy variable for user data         6 Moyle           Capacity of main memory, max.         128 Moyle           Accumulator         9           Man restratigeable ballety         7.2 V           • Rated voltage         7.2 V           • Capacity (m. typ.)         4 h           • Operating time, typ.         4 h           • Delogity for tallery capacity         Yes           • Batter yreplacement during operation         Yes           • Batter yreplacement during operation         Yes           • Drokel for tablery         Yes           • Drokel for tablery         Yes           • Droke for tablery         Yes           • Time of day         Yes           Clock         Yes           • Herdware clock (real-time)         Yes           • retentive         Yes           • retentive         Yes           • retentive         Yes           • Hordware clock (real-time)         Yes           • retentive         Yes           • retentive         Yes           • retentive <t< td=""><td></td><td></td></t<>		
Processor type         ARM. 520 MHz           Memory         Flash / RAM           Memory available for user data         6 Mbyle           Capacity of memory, max.         128 Mbyle           Accuration memory, max.         120 Mbyle           Accuration memory, max.         120 Mbyle           - Operating time, typ.         4 h           - Detating time, typ.         4 h           - Detating time, typ.         4 h           - EDD for safe         Yes           - EDD for safe         Yes           - EDD for safe <td< td=""><td></td><td></td></td<>		
Memory         Fish / RAM           Type of memory         Fish / RAM           Memory available for user data         6 Mbyle           Capabile balany         128 Mbyle           Accumulator         -           Main rechargeable balany         7 2 V           • Rated voltage         7 2 V           • Capabile balany         5 100 mA h           • Number of loading cycles, min         500           • Charging lime, typ.         4 h           • Operating lime, typ.         4 h           • Display for balany capabily         Yes           • Eatray replacement during operation         Yes           • Battery replacement during operation         Yes           • ED for safe         Yes           • ED for safe         Yes           • Ibit for communication         Yes           • Ibit for communication         Yes           • Ibit for communication         Yes           • Viorations         Yes           • Interfaces         Yes           • Interfaces         Yes           • Interfaces         1           Interfaces         1           Interfaces         1           Interfaces         1           Numb		ARM 520 MHz
Type of memory         Flash / RAM           Memory available for user data         6 Mbyte           Capacity of main memory, max.         128 Mbyte           Accumulator         7.2 V           Rated voltage         7.2 V           • Capacity         5100 mAth           • Operating time, typ.         4 h           • Departing time, typ.         4 h           • EDD for communication         Yes           • EDD for communication         Yes           • Interfaces		
Memory available for user data         6 Mayle           Capacity of main memory, max.         128 Mbyte           Accumulator         128 Mbyte           Accumulator         128 Mbyte           Accumulator         5100 mA/h           • Namber of loading cycles, min         500           • Depsity for battery capacity         Yes           • Depsity for battery capacity         Yes           • Battery replacement during operation         Yes           • Battery replacement during operation         Yes           • Eborgry-saving mode         Yes           • Imo of day         Clock           • Inter daces         1           • Inter daces         1 <t< td=""><td></td><td>Elech / DAM</td></t<>		Elech / DAM
Capably of main memory, max.     128 Mbyte       Accumulator     Interfaces       Nain rechargeable battery     7.2 V       • Rated voltage     7.2 V       • Capacity     5100 mA·h       • Number of loading cycles, min     500       • Operating time, typ.     4 h       • Display for battery capacity     Yes       • Energy-awing mode     Yes       • Battery replacement during operation     Yes       • Doer stife     Yes       • EDD for safe     Yes       • Ubrations     Yes       • Ubrations     Yes       • Time of day     Yes       • Clock     • Hardware dock (real-line)       • Hardware dock (real-line)     Yes       • releative     Yes       • Interfaces     1       • Interfaces     1       Number of Indistrial Ethernet Interfaces     0       Number of RS 425 Interfaces     0       Number of Visits IEthernet Interfaces     1       Number of Indiatrial Ethernet Interfaces     1       Number of Visits IEthernet Interfaces     1       Number of Visits IEthernet Interfaces     1       Number of Instaffacts     1   <		
Accumulator         Main rechargeable battery         • Rated voltage       7.2 V         • Capacity       5100 mA h         • Number of loading cycles, min       500         • Operating time, typ.       4 h         • Display for battery capacity       Yes         • Battery replacement during operation       Yes         Power LED       Yes         • LED for communication       Yes         • Iter of adapt       Yes         • Iter of adapt       Yes         • Iter of aday       Yes         • Clock       Yes         • Iter of aday       Yes         • Inter of aday       Yes         • Interfaces       1         Interfaces       1         Interfaces       1         Number of Nashal Ethernet interfaces		
Main rechargeable battery        7.2 V       Capacity       5100 mA h       500       Charging time, typ,       4 h       Operating time, typ,       4 h       0elays and the time of load interfaces       4 h       0elays and the time of load interfaces       4 h       0elays       4 h       0elays and the time of load interfaces       4 h       0elays       4 h       4 h       0elays       4 h		
• Rated voltage     7.2 V       • Capacity     5 100 mA·h       • Number of loading cycles, min     500       • Charging time, typ.     4 h       • Display for battery capacity     Yes       • Energy-saving mode     Yes       • Battery replacement during operation     Yes       Power LED     Yes       IED for safe     Yes       LED for safe     Yes       Clock     Yes       Vitrations     Yes       Time of day     Yes       Clock     Yes       IIm of day     Yes       Clock     Yes       Interfaces     1       Interfaces     1       Interfaces     1       Interfaces     1       Number of industrial Ethernet interfaces     1       Number of RS 422 interfaces     0       Number of RS 422 interfaces     0       Number of RS 422 interfaces     1       Multimedia card/SD card slot     1 MMC/SD card slot       Witnees IAN     Yes       Supports rapid raming     Yes       Protocols     Yes       Protocols     Yes       Protocols     Yes       Protocols     Yes       Protocols     Yes       Protocols     Yes		
• 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       Prover LED     Yes       LED for communication     Yes       LED for communication     Yes       Ubrations     Yes       Time of day     Yes       Clock     Yes       • Hardware clock (real-time)     Yes       • retertive     Yes       • retertive     Yes       • retertive     Yes       • Interfaces/bus type     1x Ethernet interfaces       Interfaces/bus type     1x Ethernet (RJ45)       Number of RS 445 interfaces     0       Number of RS 445 interfaces     1       Number of RS 445 interfaces     1       Number of RS 445 interfaces     1       Number of RS 422 interfaces     1       Number of RS 422 interfaces     1       Number of RS 425 interfaces     1       Number of RS 425 interfaces     1       Number of RS 422 interfaces     1       Number of RS 422 interfaces     1       Number of RS 422 interfaces     1 <td></td> <td>7.01/</td>		7.01/
• Number of loading cycles, min500• Charging time, typ.4 h• Operating time, typ.4 h• Display for battery capacityYes• Energy-awing modeYes• Battery replacement during operationYes• Dever LEDYesLED for safeYesLED for safeYesLED for safeYesLED for batteryYesVibrationsYesVibrationsYesInne of dayClockClockYes• Hardware clock (real-time)Yes• retentiveYes• retentiveYes• retentiveYes• Interfaces1Interfaces0Number of RA 485 interfaces0Number of RA 485 interfaces1Number of RA 48	-	
• Charging time, typ.             4 h               • Operating time, typ.             4 h               • Display for battery capacity             Yes               • Energy-saving mode             Yes               • Battery replacement during operation             Yes               Power LED             Yes               LED for safe             Yes               LED for safe             Yes               LED for communication             Yes               LED for tattery             Yes               Ubtrations             Yes               Time of day             Yes               Clock              + fairdware clock (real-lime)             Yes               • itardware clock (real-lime)             Yes             yes               • operative             Yes             Number of Iduatifial Ethemet interfaces             1               Interfaces/bus type             1x Ethemet (RJ45)             1               Number of IRS 426 interfaces             0             1               Number of IRS 426 interfaces             1             1               Number of IRS 426 interfaces             1             1 <td></td> <td></td>		
<ul> <li>e lisplay for battery capacity</li> <li>Yes</li> <li>Entery-saving mode</li> <li>Yes</li> <li>Battery replacement during operation</li> <li>Yes</li> <li>Power LED</li> <li>LED for safe</li> <li>Yes</li> <li>LED for safe</li> <li>Yes</li> <li>LED for safe</li> <li>Yes</li> <li>LED for battery</li> <li>Yes</li> <li>Ves</li> <li>Ubrations</li> <li>Yes</li> <li>Time of day</li> <li>Clock</li> <li>Hardware clock (real-time)</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Interfaces/bus type</li> <li>Interfaces/bus type</li> <li>Interfaces/bus type</li> <li>Interfaces/bus type</li> <li>Interfaces/bus type</li> <li>Interfaces</li> <li>1</li> <li>Number of Industrial Ethernet interfaces</li> <li>No</li> <li>Protocols</li> <li>No</li> <li>Protocols</li> <li>No</li> <li>Protocols</li> <li>No</li> <li>Proteocols</li> <li>No</li> <li></li></ul>		
• Energy-saving mode     Yes       • Battery replacement during operation     Yes       Prover LED     Yes       Power LED     Yes       LED for safe     Yes       LED for communication     Yes       LED for communication     Yes       Utrations     Yes       Time of day     Clock       • Elentive     Yes       Interfaces/bus type     1x Ethernet (RJ45)       Interfaces/bus type     1x Ethernet (RJ45)       Number of Industrial Ethernet Interfaces     0       Number of IS422 Interfaces     0       Number of IS422 Interfaces     1       Mutimedia card/SD card slot     1 MMC/SD card slot       WLAN     Yes       • Supports protocol for PROFINET IO     Yes       PROFIBUS     No       Protocols (Ethernet)     Yes       • TCP/IP     Yes       PROFIBUS     No       Protocols (Ethernet)     No       • OtoPUS     No       • other bus systems     No       • other bus systems     No       • augorted standards     - Ratio standards       - Rato standard VLAN 802.11		
• Battery replacement during operation         Yes           Type of output         Yes           Power LED         Yes           LED for safe         Yes           LED for communication         Yes           LED for battery         Yes           Vibrations         Yes           Time of day         Yes           Clock         *           • latedware clock (real-time)         Yes           • standware clock (real-time)         Yes           • synchronizable         Yes           Interfaces/bus type         1x Ethernet (RJ45)           Number of RS 425 interfaces         0           Number of RS 425 interfaces         1           Number of RS 425 interfaces         1           Number of S 425 interfaces         1           Number of Wireless Interfaces         1           Witimedia card/SD card slot         1 MMC/SD card slot           Wultimedia card/SD card slot         1 MMC/SD card slot           Wultimedia card/SD cof for PROFINET IO         Yes <td></td> <td></td>		
Type of output           Power LED         Yes           LED for safe         Yes           LED for safe         Yes           LED for battery         Yes           Vibrations         Yes           Time of day         (Clock           Clock         Yes           • Hardware dock (real-time)         Yes           • synchronizable         Yes           Interfaces/bus type         1x Ethernet (RJ45)           Number of Industrial Ethernet interfaces         0           Number of RS 485 interfaces         0           Number of RS 485 interfaces         1           Number of RS 452 interfaces         1           Number of RS 452 interfaces         1           Multimedia card/SD card slot         1 MMC/SD card slot           Wireless LAN         Yes           • Wireless LAN         Yes           PROFIBUS         No           • CORDUS         No		
Power LED     Yes       LED for safe     Yes       LED for communication     Yes       LED for battery     Yes       Vibrations     Yes       Time of day     Clock       Cock     • Hardware clock (real-time)       • retentive     Yes       • synchronizable     Yes       Interfaces     1x Ethernet (RJ45)       Number of Industrial Ethernet interfaces     1       Number of Industrial Ethernet interfaces     0       Number of RS 485 interfaces     0       Number of NS 422 interfaces     1       Number of Viseless interfaces     1       Number of Visel Interfaces     1       Multimedia card/SD card slot     1 MMC/SD card slot       WLAN     •       • Vireless LAN     Yes       • Supports protocol for PROFINET IO     Yes       PROFIBUS     No       PROFIBUS     No       PROFIBUS     No       PROFIBUS     No       PROFIBUS     No       OBUS     No       • Other bus systems     No		res
LED for safe     Yes       LED for communication     Yes       LED for battery     Yes       Vibrations     Yes       Time of day     Yes       Clock     • Hardware clock (real-time)     Yes       • Hardware clock (real-time)     Yes       • Iteratores     Yes       Interfaces     1       Interfaces/bus type     1x Ethernet (RJ46)       Number of RS 485 interfaces     0       Number of RS 422 interfaces     0       Number of RS 425 interfaces     1       Multimedia card/SD card slot     1 MMC/SD card slot       WLAN     Yes       • Vireless LAN     Yes       • PROFIBUS     No       PROFIBUS     No       PROFIBUS     No       • ODBUS     No       • Other bus systems     No       • Other bus systems     No       • ODBUS     No       • Communication     Yes       • Moreless communication     No       • Communication     Yes       • Emacion of radio interference acc. to EN 55 011		
LED for communication     Yes       LED for battery     Yes       Vibrations     Yes       Time of day     Clock       • Hardware clock (real-time)     Yes       • interfaces     Yes       • interfaces/but type     Yes       Interfaces/but type     1x Ethernet (RJ45)       Number of RS 455 interfaces     0       Number of RS 455 interfaces     0       Number of RS 455 interfaces     0       Number of RS 455 interfaces     1       Number of Wireless Interfaces     1       Number of USB interfaces     1       Mutlimedia card/SD card slot     1 MMC/SD card slot       WLAN     Yes       PROFIBUS     Yes       PROFIBUS     No       PROFIBUS     No       PROFIBUS     No       PROFIBUS     No       • TCP/IP     Yes       Pruther protocols     Image: Communication       • NOBUS     No       • OBUS     No       • OBUS     No       • OBUS     No <td></td> <td></td>		
LED for battery     Yes       Vibrations     Yes       Time of day     Clock       • Hardware clock (real-time)     Yes       • retentive     Yes       • retentive     Yes       • synchronizable     Yes       Interfaces/bus type     1x Ethernet (RJ45)       Number of industrial Ethernet interfaces     1       Number of RS 455 interfaces     0       Number of RS 422 interfaces     0       Number of USB interfaces     1       Multimedia card/SD card slot     1 MMC/SD card slot       WLAN     Yes       • Wireless LAN     Yes       • Wireless LAN     Yes       • Wireless LAN     Yes       • Wireless LAN     Yes       • Supports rapid roaming     Yes       PROFIBUS     No       PROFIBUS     No       PROFIBUS     No       Protocols     No       • ODBUS     No       • OMDBUS     No       • other bus systems     No       • other bus systems     No       • ODBUS     No       • other bus systems		
Vibrations       Yes         Time of day         Clock <ul> <li>Hardware clock (real-time)</li> <li>Yes</li> <li>retentive</li> <li>yes</li> </ul> <ul> <li>Interfaces</li> </ul> Interfaces       1         Interfaces       0         Number of RS 455 interfaces       0         Number of USB interfaces       1         Number of USB interfaces       1         Number of USB interfaces       1         Multimedia card/SD card slot       1 MMC/SD card slot         WLAN <ul> <li>Wireless LAN</li> <li>Yes</li> <li>Supports protocol for PROFINET IO</li> <li>Yes</li> <li>PROFisafe</li> <li>Yes</li> <li>PROFisafe</li> <li>Yes</li> <li>PROFISafe</li> <li>Yes</li> <li>PROFisafe</li> <li>Yes</li> <li>PROFisafe</li> <li>Yes</li> <li>PROFisafe</li> <li>No</li> <li>other bus systems</li> <li>No</li> <li>other bus systems</li></ul>		
Time of day         Clock <ul> <li>Hardware clock (real-time)</li> <li>Yes</li> <li>retentive</li> <li>synchronizable</li> </ul> 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 VISB interfaces       1         Number of VISB interfaces       1         Number of Wiseless Interfaces       1         Muthmedia card/SD card slot       1 MMC/SD card slot         WLAN       Yes         Protocols       Yes         PROFIBUS       No         PROFIBUS       No         PROFIBUS       No         Protocols       Yes         PROFIBUS       No         Protocols       Yes         Protocols       No         • Other bus systems       No         • Omunuciation functio		
Clock       Hardware clock (real-time)       Yes         • retentive       Yes         • synchronizable       Yes         Interfaces       Interfaces         Interfaces/bus type       1x Ethernet (RJ45)         Number of RS 485 interfaces       0         Number of RS 422 interfaces       0         Number of RS 422 interfaces       0         Number of RS 422 interfaces       1         Mumber of RS 422 interfaces       1         Mutimedic card/SD card slot       1 MMC/SD card slot         WLAN       Ves         • Supports protocol for PROFINET IO       Yes         PROFIsafe       Yes         PROFIsafe       Yes         PROFISafe       Yes         PROFISafe       Yes         Protocols       No         Other bus systems       No         Other bus systems       No         Outher of standards       -         - Radio standard WLAN 802.11       Yes         Emc       Emc         Emission of radio interference acc. to EN 55 011		Yes
• Hardware clock (real-lime)     Yes       • retentive     Yes       • synchronizable     Yes       Interfaces/bus type     1x Ethernet (RJ45)       Number of industrial Ethernet interfaces     1       Number of RS 428 interfaces     0       Number of RS 422 interfaces     0       Number of USB interfaces     1       Number of VIS 22 interfaces     1       Number of VISB interfaces     1       MUC/SD card slot     VISC/SD card slot       VISE     VISE     Yes       PROFIBUS     No       PROFIBUS     No       • ODEN     No		
• retentive     Yes       • synchronizable     Yes       Interfaces     1       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 SZ 22 interfaces     0       Number of Wireless interfaces     1       Number of Wireless interfaces     1       Mutimedia card/SD card slot     1 MMC/SD card slot       WLAN     Yes       • Wireless LAN     Yes       • Supports rapid roaming     Yes       Protocols     Yes       Supports protocol for PROFINET IO     Yes       PROFIBUS     No       PROFIBUS     No       Protocols (Ethernet)     Yes       • TCP/IP     Yes       Further protocols     No       • other bus systems     No       • other bus systems     No       • communication     -       • supported standards     -       - Radio standard WLAN 802.11     Yes       Emission of radio interference acc. to Eth 55 011		
e synchronizable     Yes       Interfaces/bus type     1x Ethernet (RJ45)       Number of Industrial Ethernet interfaces     1       Number of RS 485 interfaces     0       Number of RS 482 interfaces     0       Number of Wizeless interfaces     1       Multimedia card/SD card slot     1 MMC/SD card slot       VULAN     V       • Wizeless LAN     Yes       Protocols		
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 RS 422 interfaces       0         Number of VSB interfaces       1         Number of Wireless interfaces       1         WLAN       WLAN         • Wireless LAN       Yes         • Supports rapid roaming       Yes         PROFISIS       Yes         PROFISIS       No         PROFISIS       No         • TCP/IP       Yes         Further protocols       No         • other bus systems       No         • exation functions       Yes         EMC       Emission of radio interference acc. to		
Interfaces/bus type       1x Ethermet (RJ45)         Number of industrial Ethernet interfaces       1         Number of RS 485 interfaces       0         Number of RS 422 interfaces       0         Number of Wireless interfaces       1         Number of vireless interfaces       1         Muttimedia card/SD card slot       1 MMC/SD card slot         WLAN       •         • Wireless LAN       Yes         • Supports rapid roaming       Yes         Protocols		Yes
Number of industrial Ethernet interfaces       1         Number of RS 485 interfaces       0         Number of WSB interfaces       1         Number of USB interfaces       1         Number of wireless interfaces       1         Multimedia card/SD card slot       1 MMC/SD card slot         WLAN       Yes         • Wireless LAN       Yes         • Supports protocol for PROFINET IO       Yes         PROFIBUS       No         PROFIBUS       No         Protocols       No         PROFIBUS       No         PROFIBUS       No         PROFUS       Yes         PROFUS       Yes         • TCP/IP       Yes         Further protocols       No         • MODBUS       No         • other bus systems       No         Communication functions       No         Wireless communication       - supported standards         - Radio standard WLAN 802.11       Yes         Emission of radio interference acc. to EN 55 011		
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         PROFIBUS       No         Protocols (Ethernet)       •         • TCP/IP       Yes         Further protocols       No         Ommunication functions       No         Wireless communication       •         • supported standards       -         - Radio standard WLAN 802.11       Yes		1x Ethernet (RJ45)
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       1         • Wireless LAN       Yes         • Supports protocol for PROFINET IO       Yes         PROFISafe       Yes         PROFIBUS       No         Protocols (Ethernet)       Yes         • TCP/IP       Yes         Further protocols       No         OBBUS       No         • other bus systems       No         Communication functions       No         Wireless communication       Yes         EMC       Emission of radio interference acc. to EN 55 011		
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         PROFIBUS       No         Protocols (Ethernet)       Yes         • TCP/IP       Yes         Further protocols       -         Wireless communication       No         • other bus systems       No         Communication       -         - Radio standard WLAN 802.11       Yes         EMC       Emission of radio interference acc. to EN 55 011		
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         PROFIBUS       No         Protocols (Ethernet)       Yes         • TCP/IP       Yes         Further protocols       No         • other bus systems       No         Vireless communication       •         • supported standards       Yes         — Radio standard WLAN 802.11       Yes		
Multimedia card/SD card slot       1 MMC/SD card slot         WLAN <ul> <li>Wireless LAN</li> <li>Supports rapid roaming</li> <li>Yes</li> <li>Protocols</li> <li>Supports protocol for PROFINET IO</li> <li>Yes</li> <li>PROFIBUS</li> <li>No</li> <li>Protocols (Ethernet)</li> <li>TCP/IP</li> <li>Yes</li> <li>Further protocols</li> <li>MODBUS</li> <li>other bus systems</li> <li>No</li> <li>Other bus systems</li> <li>No</li> <li>Communication functions</li> <li>Wireless communication</li> <li>supported standards</li> <li>— Radio standard WLAN 802.11</li> <li>Yes</li> <li>EMC</li> <li>Emission of radio interference acc. to EN 55 011</li> <li>Emission of radio interference acc. to EN 55 011</li> <li>Model and account of the standards</li> <li>Model and account of the standards</li> <li>Model and account of the standards</li> <li>Model and account of the standard of the sta</li></ul>		
WLAN         • Wireless LAN       Yes         • Supports rapid roaming       Yes         Protocols		
• Wireless LAN       Yes         • Supports rapid roaming       Yes         Protocols		1 MMC/SD card slot
• Supports rapid roamingYesProtocolsSupports protocol for PROFINET IOYesPROFIsafeYesPROFIBUSNoProtocols (Ethernet)Yes• TCP/IPYesFurther protocolsNo• MODBUSNo• other bus systemsNoCommunication functionsNoWireless communicationYes- Radio standard WLAN 802.11YesEMCEmission of radio interference acc. to EN 55 011		
Protocols         Supports protocol for PROFINET IO       Yes         PROFIsafe       Yes         PROFIBUS       No         Protocols (Ethernet)       Yes         • TCP/IP       Yes         Further protocols       No         • MODBUS       No         • other bus systems       No         Communication functions       No         Wireless communication       - Radio standards         - Radio standard WLAN 802.11       Yes         EMC       Emission of radio interference acc. to EN 55 011		
Supports protocol for PROFINET IO       Yes         PROFIsafe       Yes         PROFIBUS       No         Protocols (Ethernet)       Yes         • TCP/IP       Yes         Further protocols       No         • MODBUS       No         • other bus systems       No         Communication functions       No         Wireless communication       - Radio standard WLAN 802.11         Yes       Emission of radio interference acc. to EN 55 011		Yes
PROFIsafe       Yes         PROFIBUS       No         Protocols (Ethernet)       Yes         • TCP/IP       Yes         Further protocols       No         • MODBUS       No         • other bus systems       No         Communication functions       No         Wireless communication       - Radio standards         - Radio standard WLAN 802.11       Yes         EMC       Emission of radio interference acc. to EN 55 011		
PROFIBUS       No         Protocols (Ethernet)       -         • TCP/IP       Yes         Further protocols       -         • MODBUS       No         • other bus systems       No         Communication functions       No         Wireless communication       -         • supported standards       -         Radio standard WLAN 802.11       Yes         EMC       -         Emission of radio interference acc. to EN 55 011		
Protocols (Ethernet)       Yes         • TCP/IP       Yes         Further protocols       No         • MODBUS       No         • other bus systems       No         Communication functions       Wireless communication         • supported standards       –         — Radio standard WLAN 802.11       Yes         EMC       Emission of radio interference acc. to EN 55 011		
• TCP/IP       Yes         Further protocols       No         • MODBUS       No         • other bus systems       No         • other bus systems       No         Communication functions       Vireless communication         • supported standards       Yes         - Radio standard WLAN 802.11       Yes         Emission of radio interference acc. to EN 55 011       Ves		No
Further protocols       No         • MODBUS       No         • other bus systems       No         Communication functions       No         Wireless communication       -         • supported standards       -         — Radio standard WLAN 802.11       Yes         EMC       -         Emission of radio interference acc. to EN 55 011		
• MODBUS       No         • other bus systems       No         Communication functions       No         Wireless communication       • supported standards         • supported standards       - Radio standard WLAN 802.11         Yes       EMC         Emission of radio interference acc. to EN 55 011		Yes
• other bus systems       No         Communication functions       Image: Communication         • supported standards       Image: Communication         • Radio standard WLAN 802.11       Yes         EMC       Image: Communication function function function         Emission of radio interference acc. to EN 55 011       Image: Communication function function function function function function function		
Communication functions         Wireless communication         • supported standards         — Radio standard WLAN 802.11         Yes         EMC         Emission of radio interference acc. to EN 55 011		
Wireless communication         • supported standards         — Radio standard WLAN 802.11         Yes         EMC         Emission of radio interference acc. to EN 55 011	-	NO
• supported standards     — Radio standard WLAN 802.11 Yes  EMC Emission of radio interference acc. to EN 55 011		
Radio standard WLAN 802.11 Yes  EMC Emission of radio interference acc. to EN 55 011		
EMC Emission of radio interference acc. to EN 55 011		
Emission of radio interference acc. to EN 55 011		Yes
	EMC	
• Limit class A, for use in industrial areas Yes; The product is designed for use in industrial environments. When	Emission of radio interference acc. to EN 55 011	
	<ul> <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

Standards, approvals, certificates	
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	
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	е
<ul> <li>SIL acc. to IEC 61508</li> </ul>	SIL 3
Ambient conditions	
Free fall	
<ul> <li>Fall height, max.</li> </ul>	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 display (output) Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	165
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

<ul> <li>Ist messages</li> <li>In messages</li> <li>Ves</li> <li>Analog messages</li> <li>Ves</li> <li>Number of harnessages PLC</li> <li>Ves</li> <li>System messages PLC</li> <li>Ves</li> <li>Ves</li> <li>Number of haracters per message</li> <li>0</li> <li>Number of process values per message</li> <li>8</li> <li>Adanowidgement groups</li> <li>9</li> <li>Messages indicator</li> <li>Ves</li> <li>Finatian value</li> <li>Ves</li> <li>Finatian value</li> <li>Ves</li> <li>Finatian value</li> <li>Ves</li> <li>Ves</li> <li>Adanowidgement groups</li> <li>90</li> <li>Message indicator</li> <li>Ves</li> <li>Finatian value</li> <li>Ves</li> <li>Finatian value</li> <li>Ves</li> <li>Finatian value</li> <li>Ves</li> <li>Ves&lt;</li></ul>	24	
Analog messages     Analog messages     Yes     Wath     Number of analog messages     4000     System messages PLC     Yes     System messages PLC     Yes     System messages PLC     Yes     Unitse     Initse     Number of characters per message     80     Advowledgment groups     Advowledgment groups     Analog message     Analog     Analog message     Analog message	Bit messages	Yes
- Number of nanalog messages 4 000 • System messages PLC Yes • Lines 1 • Number of characters per message 0 • Number of schowledgement groups • Persitisat value • Number of recipes • Solo • Entres per data record • Number of variables per device • Number of variables per device • Number of variables per scheme • Number of configurable images • Structures • Structures • Number of configurable images • Number of chalters here here • Number of chalters here here • Number of lo Glebs per minage • Number of lo Glebs per minage • Number of of date time fields • Number of of objects per project • Number of of objects per project • Number of numerals fields per image • Number of numerals fields per image • Number of numerals fields per i	-	
<ul> <li>System messages Hvil</li> <li>System messages Hvil</li> <li>System messages Hvil</li> <li>System messages Hvil</li> <li>Number of characters par message</li> <li>Number of process values per message</li> <li>Acknowledgment groups</li> <li></li></ul>		
<ul> <li>System message PLC</li> <li>Lives</li> <li>Number of characters per message</li> <li>Number of characters per message</li> <li>Acknowledgment groups</li> <li></li></ul>		
<ul> <li>Lines</li> <li>Number of baracters per message</li> <li>Acknowledgment groups</li> <li>Particle of acknowledgment groups</li> <li>Acknowledgment groups</li> <li>Particle of acknowledgment groups</li> <li>Particle of acknowledgrowledgment groups</li> <li>Particle of</li></ul>		
• Number of characteris per message     80       • Acknowledgment groups     80       - Number of acknowledgment groups     99       • Message indicator     Yes       • First/last value     Yes       • First/last value     Yes       • Number of racipes     300       • Data records per fracipe     500       • Entries per data record     1000       • Recipe memory     64 KB integrated Flash, expandable       • Number of variables per device     2 048       • Number of variables per screen     200       • Number of variables per device     2 048       • Type Date & Time     2 048       • Type Date & Time     2 048       • Multiphing     Yes       • Start screen configurable     Yes       • Start screen configurable     Yes       • Image selection by PLC     Yes       • Image selection by PLC     Yes       • Number of dateline fields     200       • Number of dateline fields     200 </td <td></td> <td></td>		
• Number of process values per message     8       • Number of acknowledgement groups     99       • Message indicator     Yes       • First/alta value     Yes       • Reizer management     300       • Data records per recipe     500       • Entrins per data record     1000       • Recipe memory     64 KB integrated Flash, expandable       Variables     2043       • Number of variables per screen     200       • Number of configurable     Yes       • Structures     Yes       • Structures     Yes       • Structures     Yes       • Number of configurable     Yes       • Structures		
<ul> <li>Adxnowledgment groups</li> <li>Number of acknowledgment groups</li> <li>Message indicator</li> <li>Firstlast value</li> <li>Yes</li> <li>Firstlast value</li> <li>Yes</li> <li>Recipe management</li> <li>Number of recipes</li> <li>Stot</li> <li>Entries per data record</li> <li>1000</li> <li>Recipe memory</li> <li>4 KB integrated Flash, expandable</li> <li>Versities</li> <li>Number of variables per device</li> <li>2 048</li> <li>Number of variables per screen</li> <li>200</li> <li>Number of variables per screen</li> <li>200</li> <li>Number of variables per screen</li> <li>200</li> <li>Number of variables</li> <li>1000</li> <li>Initial values</li> <li>Yes</li> <li>Yes</li> <li>Structures</li> <li>Yes</li> <li>Structures</li> <li>Yes</li> <li>Structures</li> <li>Yes</li> <li>Structures</li> <li>Yes</li> <li>Structures</li> <li>Yes</li> <li>Image sclecton by PLC</li> <li>Yes</li> <li>Number of lub fields per image</li> <li>1000</li> <li>Return</li> <li>Yes, With SIMATIC S7</li> <li>Opiner instruments</li> <li>Number of adaet/me fields</li> <li>200</li> <li>Return</li> <li>Number of adaet per project</li> <li>Iono</li> <li>Number of adaet per project</li> <li>Number of adaet per image</li> <li>Number of adaet per project</li> <li>Number of adaet per project</li> <li>Number of adaet per image</li> <li>Number of adaet per image</li></ul>		
Number of acknowledgement groups         99           • Message indicator         Yes           • Firsthast value         Yes           • Recipe management         90           • Number of racipes         300           • Data records per racipe         500           • Encipe memory         64 KB integrated Flash, expandable           Variabis         2 048           • Number of variables per screen         200           • Number of variables per screen         2 048           • Type Date & Time         2 048           • Type Date & Time         2 048           • Limit values         Yes           • Multiplexing         Yes           • Multiplexing         Yes           • Number of configurable images         500           • Permanet windowlefault         Yes           • Image selection by PLC         Yes           • Image selection by PLC         Yes           • Number of date flints fields         200           • Number of dates per image         200           • Number of dates per image         200           • Image selection by PLC         Yes           • Image selection by PLC         Yes           • Number of dates per image         200 </td <td>· · · -</td> <td>8</td>	· · · -	8
Alexage indicator     First/last value     Yes     First/last value     Yes     First/last value     Yes     Aumber of recipes     Solo     So		00
• First/last value         Yes           Recipe management         •           • Number of recipes         300           • Data records per recipe         500           • Entries per data record         1000           • Recipe memory         64 KB integrated Flash, expandable           Variables         2 048           • Number of variables per screen         200           • Number of variables per screen         2 048           • Type Date & Time         2 048           • Linit values         2 048           • Linit values         2 048           • Linit values         Yes           • Structures         Yes           • Number of configurable images         500           • Permanent window/default         Yes           • Inage selection by PLC         Yes           • Image number in the PLC         Yes           • Image number in the PLC         Yes           • Return         Yes           • Return         Yes           • Return         Yes           • Status/control         Yes           • Return         Yes           • Return         Yes           • Status/control         Yes           • Return		
Recipe management	-	
• Number of recipes     300       • Data records per recipe     500       • Encipe prenory     64 KB integrated Flash, expandable       Variables     2 048       • Number of variables per screen     200       • Number of variables per screen     2 048       • Number of variables     1 000       • Number of variables     2 048       • Number of oronfigurable     2 048       • Number of configurable images     500       • Structures     Yes       • Number of configurable images     500       • Regreschedon by PLC     Yes       • Image selection by PLC     Yes       • Image objects     10 000 text elements       • Number of I/O fields per image     200       • Number of object b     10 000 text elements       • Regreschedon     1000       • Regreschedon     1000       • Regreschedon     1000       • Regreschedon     1000       • Regreschedon     100       • Regreschedon     1000       • Regreschedon     1000       • Regreschedon     100       • Regreschedon		165
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• Entries per data record     1 00       • Recipe memory     64 KB integrated Flash, expandable       • Number of variables per device     2 048       • Number of variables per screen     200       • Number of variables per screen     200       • Number of variables     1 000       • Number of variables     2 048       • Yope Date & Time     2 048       • Yope Date & Time     2 048       • Unitit values     2 048       • Unitit values     2 048       • Number of onfigurable images     2 048       • Structures     Yes       • Number of configurable images     500       • Remanent windowidefault     Yes       • Start screen configurable     Yes       • Image selection by PLC     Yes       • Image objects     10 000 text elements       • Number of Volf fields per image     200       • Number of date/time fields     200       • Return     Yes       • Graphics object     10 000 text elements       • Jong of date/time fields     200       • Return     Yes       • Status/control     Diagrams, bar graphs, silders, analog display, invisible buttons       • Number of objects per project     1 000       • Number of dure diagrams per image     10       • Number of alobars per chart <td>·</td> <td></td>	·	
• Recipe memory         64 KB integrated Flash, expandable           Variables         2 048           • Number of variables per screen         200           • Number of variables per screen         2 048           • Initial values         2 048           • Type Date & Time         2 048           • Limit values         2 048           • Limit values         Yes           • Mumber of configurable images         500           • Kumber of configurable images         500           • Recipe memory         Yes           • Number of configurable images         500           • Remanent window/default         Yes           • Stractere configurable         Yes           • Image selection by PLC         Yes           • Image selection by PLC         Yes           • Text objects         10 000 text elements           • Number of I/O fields per image         200           • Return         Yes           • Graphics object         1000           • Oraplex image objects         Ves: With SIMATIC S7           • Mumber of objects per project         100           • Number of alos per image         10           • Mumber of alos per image         10           • Mumber of alos per imag		
Variables         • Number of variables per screen       200         • Number of variables       1000         • Initial values       2048         • Type Date & Time       2048         • Limit values       2048         • Limit values       2048         • Limit values       Yes         • Number of configurable images       500         • Permanent window/default       Yes         • Structures       Yes         Image solection by PLC       Yes         • Image ablects       10 000 text elements         • Number of date/time fields       200         • Number of U/D fields per image       200         • Number of date/time fields       200         • Return       Yes         • Graphics object       Bit maps, icons, vector graphics         - Icons       10000         Complex image objects       Diagrams, bar graphs, sliders, analog display, invisible buttons         - Number of baits per project       1000         • Winther of allog and indicators per image       10         • Graphics objects       Diagrams, bar graphs, sliders, analog display, invisible buttons         - Number of baits per chart       10         • Sitiders       - Number of alalog indicators per im	•	
<ul> <li>Number of variables per device</li> <li>2 048</li> <li>Number of variables per screen</li> <li>200</li> <li>Number of variables per screen</li> <li>200</li> <li>Initial values</li> <li>2 048</li> <li>Type Date &amp; Time</li> <li>2 048</li> <li>I'try values</li> <li>Yes</li> <li>Structures</li> <li>Yes</li> <li>Structures</li> <li>Yes</li> <li>Structures</li> <li>Permanent window/default</li> <li>Yes</li> <li>Start screen configurable images</li> <li>Stock screen configurable</li> <li>Yes</li> <li>Image selection by PLC</li> <li>Yes</li> <li>Number of I/O fields per image</li> <li>Quot</li> <li>Number of oddefine fields</li> <li>200</li> <li>Number of oddefine fields</li> <li>200</li> <li>Number of oddefine fields</li> <li>200</li> <li>Number of odjects</li> <li>I 000</li> <li>Complex image objects</li> <li>I Number of objects per project</li> <li>Number of alarging and sper image</li> <li>Number of alarging image</li> <li>Number of objects per image</li> <li>Number of objects per image</li> <li>Number of alarging image</li> <li>Number of alargin image</li> <li>Number of alarg</li></ul>		
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Number of variables1 000• Number of variables2 048• Type Date & Time2 048• Linit valuesYes• MultiplexingYes• StructuresYes• Number of configurable images500• Permanent window/defaultYes• Start screen configurableYes• Image selection by PLCYes• Image selection by PLCYes• Image selection by PLCYes• Text objects10 000 text elements• Number of date/time fields200• Number of date/time fields200• ReturnYes• Complex image objects1000• Other of date/time fields200• Number of date/time fields200• Number of date/time fields200• ReturnYes• Status/control1000• Outpets1000• Number of duro bjectsDiagrams, bar graphs, silders, analog display, invisible buttons• Number of ourve diagrams per image10• Number of objects per project1000• Number of bars per chart10• Number of sildes per image10• Number of analog indicators per image200• Number of alphanumerical fields300• alphanumerical fields300• alphanumerical fields2048• numerical fields per image2048<		
<ul> <li>initial values</li> <li>2 048</li> <li>Type Date &amp; Time</li> <li>2 048</li> <li>Unit values</li> <li>Yes</li> <li>Multiplexing</li> <li>Yes</li> <li>Structures</li> <li>Yes</li> <li>Structures</li> <li>Number of configurable images</li> <li>S00</li> <li>Permanent window/default</li> <li>Yes</li> <li>Start screen configurable</li> <li>Yes</li> <li>Start screen configurable</li> <li>Yes</li> <li>Image selection by PLC</li> <li>Yes</li> <li>Image objects</li> <li>Test objects</li> <li>It optical factors</li> <li>Number of Vol fields per image</li> <li>Q00</li> <li>Return</li> <li>Graphics object</li> <li>Bit maps, icons, vector graphics</li> <li>I oto0</li> <li>rest with SIMATIC S7</li> <li>Objects</li> <li>Status/control</li> <li>Yes; With SIMATIC S7</li> <li>Objects</li> <li>I outour diagrams per image</li> <li>Outour diagrams per image</li> <li>I outour diagrams per image</li> <li>Number of curve diagrams per image</li> <li>Number of curve diagrams per image</li> <li>Number of sclies per project</li> <li>Number of sclies per image</li> <li>Num</li></ul>		
• Type Date & Time2 048• Limit valuesYes• MultiplexingYes• StructuresYes• Number of configurable images500• Permanent window/defaultYes• Start screen configurableYes• Image selection by PLCYes• Image number in the PLCYes• Image objects10 000 text elements• Number of dot fields per image200• Number of dot dot fields per image10 000• Complex image objects1000• Orangic objects per project1 000• Number of curve diagrams per image10• Muthor of slides per chart10• Silders10• Number of slides per image10• Number of slides per image10• Number of alphanumerical fields300• Number of alphanumerical fields300• alphanumerical fields per image200• Number of alphanumerical fields200• Number of alphanumerical fields200• Number of alphanumerical		
<ul> <li>Linit values</li> <li>Yes</li> <li>Multiplexing</li> <li>Structures</li> <li>Yes</li> <li>Structures</li> <li>Yes</li> <li>Structures</li> <li>Solution</li> <li>Permanent window/default</li> <li>Yes</li> <li>Start screen configurable images</li> <li>Solution</li> <li>Start screen configurable</li> <li>Yes</li> <li>Start screen configurable</li> <li>Yes</li> <li>Start screen configurable</li> <li>Yes</li> <li>Image selection by PLC</li> <li>Yes</li> <li>Image objects</li> <li>Text objects</li> <li>Number of I/O fields per image</li> <li>Quot</li> <li>Return</li> <li>Graphics object</li> <li>Ionoo</li> <li>Complex image objects</li> <li>Status/control</li> <li>Mumber of objects per project</li> <li>Status/control</li> <li>Wes</li> <li>Methods</li> <li>Trend / profile</li> <li>Bar graphs</li> <li>Number of slides per image</li> <li>Methods</li> <li>Trend / profile</li> <li>Bar graphs</li> <li>Number of slides per image</li> <li>Number of analog indicators per image</li> <li>Pointer instruments</li> <li>Number of analog indicators per image</li> <li>Number of analog indicators per image</li> <li>Uitint value lines</li> <li>Yes</li> <li>Number of analog indicators per image</li> <li>Intim value lines</li> <li>Yes</li> <li>Number of analog indicators per image</li> <li>Intim value lines</li> <li>Yes</li> <li>Number of analog indicators per image</li> <li>Intim value lines</li> <li>Yes</li> <li>Number of analog indicators per image</li> <li>Intim value lines</li> <li>Yes</li> <li>Number of alphanumerical fields</li> <li>Quot</li> </ul>		
• MultiplexingYes• StructuresYesImages500• Permanent window/defaultYes• Start screen configurable images500• Image selection by PLCYes• Image selection by PLCYes• Image solection by PLCYes• Image objects10 000 text elements• Number of tu/O fields per image200• Number of du/O fields per image10 000• Complex image objects10 000• Complex image objects10 000• Oraphics objectsDiagrams, bar graphs, sliders, analog display, invisible buttons• Number of objects per project1 000• Number of objects per project1 000• Number of bars per chart10• Mumber of bars per chart10• Number of slides per image10• Number of slides per image10• Number of alalog indicators per image200• Number of alalog indicators per image200<		
StructuresYesImagesNumber of configurable images500Permanent window/defaultYesStart screen configurableYesImage selection by PLCYesImage number in the PLCYesText objects10 000 text elementsNumber of I/O fields per image200Number of date/time fields200ReturnYesGraphics objectsBit maps, icons, vector graphics- Icons10 000Complex image objectsDiagrams, bar graphs, sliders, analog display, invisible buttons- Number of objectsDiagrams, bar graphs, sliders, analog display, invisible buttons- Number of curve diagrams per image10MethodsTrend / profileBar graphs10- Number of slides per image10- Number of analog indicators per image10- Number of analog indicators per image10- Number of alphanumerical fields300- Limit value linesYesNumber of alphanumerical fields per image200- Number of analog indicators per image10- Number of alphanumerical fields per image2048- Number of alphanumerical fields per image2048- Number of lines2048- numerical fields per image200		
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       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       1000         Complex image objects       Diagrams, bar graphs, sliders, analog display, invisible buttons         - Number of objects per project       1000         - Number of bars per chart       10         • Methods       Trend / profile         • Bar graphs       -         - Number of slides per image       10         • Number of slides per image       10         • Pointer instruments       10         • Number of slides per image       10         • Number of alphanumerical fields       300         - alphanumerical fields       300         - alphanumerical fields       204         • Number of numerical fields       2048		
• 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       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         - lcons       10 000         Complex image objects       Yes; With SIMATIC S7         • Status/control       Yes; With SIMATIC S7         • Aymber of objects       Diagrams, bar graphs, sliders, analog display, invisible buttons         - Number of objects       Diagrams, bar graphs, sliders, analog display, invisible buttons         - Number of objects per project       10 000         • Methods       Trend / profile         • Bar graphs       -         - Number of slides per image       10         • Pointer instruments       -         - Number of analog indicators per image       10         • Pointer instruments       -         - Number of alphanumerical fields       300         - alphanumerical fields       2048     <		
• Permanent window/defaultYes• Start screen configurableYes• Image selection by PLCYes• Image objectsYes• Text objects10 000 text elements• Number of I/O fields per image200• Number of date/time fields200• ReturnYes• Graphics objectBit maps, icons, vector graphics- Icons1 000Complex image objects10 000• Number of objectsDiagrams, bar graphs, sliders, analog display, invisible buttons• Number of objects1 000• Number of objectsDiagrams, bar graphs, sliders, analog display, invisible buttons• Number of objects1 000• Number of objects per project1 000• Number of bars per chart10• Muthor of bars per chart10• Sliders Number of slides per image10• Number of alphanumerical fields300- Limit value linesYes• Number of alphanumerical fields200• Number of iffels per image200• Number of alphanumerical fields2048- numerical fields per image2048	-	500
<ul> <li>Image selection by PLC</li> <li>Image number in the PLC</li> <li>Yes</li> <li>Image objects</li> <li>Text objects</li> <li>Number of 1/0 fields per image</li> <li>200</li> <li>Number of date/time fields</li> <li>200</li> <li>Return</li> <li>Graphics object</li> <li>In maps, icons, vector graphics</li> <li>- lcons</li> <li>1000</li> <li>Complex image objects</li> <li>Status/control</li> <li>Mumber of objects per project</li> <li>Mumber of objects per project</li> <li>Number of objects per project</li> <li>Mumber of objects per project</li> <li>Number of objects per project</li> <li>Number of bides per image</li> <li>Trend / profile</li> <li>Bar graphs</li> <li>Number of slides per image</li> <li>Pointer instruments</li> <li>Number of analog indicators per image</li> <li>Limit value lines</li> <li>Ves</li> <li>Number of alphanumerical fields</li> <li>200</li> <li>Number of fields per image</li> <li>Outouterical fields per image</li> <li>Number of fields per image</li> <li>Outouterical fields</li> <li>2048</li> <li>numerical fields per image</li> <li>200</li> </ul>		Yes
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Image number in the PLC         Yes           Image objects         10 000 text elements                • 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         Diagrams, bar graphs, sliders, analog display, invisible buttons                • Number of objects per project         1 000                • Number of curve diagrams per image         10                • Mumber of bars per chart         1 00                • Number of slides per image         10                • Number of slides per image         10                • Number of slides per image         10                • Number of analog indicators per image         10                • Number of analog indicators per image         10                • Pointer instruments                  • Number of analog indicators per image         10                • Limit value lines         Yes                • Nu	-	Yes
Image objects       10 000 text elements         • Text objects       10 000 text elements         • Number of l/O fields per image       200         • Number of lotate/time fields       200         • Return       Yes         • Graphics object       Bit maps, icons, vector graphics         - lcons       1 000         Complex image objects       1 000         Complex image objects       Yes; With SIMATIC S7         • Status/control       Yes; With SIMATIC S7         • Aumber of objects per project       1 000         - Number of curve diagrams per image       10         • Methods       Trend / profile         • Bar graphs       -         - Number of slides per image       10         • Number of analog indicators per image       10         • Number of analog indicators per image       10         • Linit value lines       Yes         • Number of alphanumerical fields       300         - alphanumerical fields per image       200         • Number of invercical fields per image       200		Yes
• Text objects10 000 text elements• Number of I/O fields per image200• Number of date/time fields200• ReturnYes• Graphics objectBit maps, icons, vector graphics- Icons1 000Complex image objects000• Status/controlYes; With SIMATIC S7• dynamic objects per project1 000- Number of objects per project1 000- Number of objects per project1 000- Number of dars per chart10• MethodsTrend / profile• Sliders10- Number of slides per image10• Number of analog indicators per image10• Number of alphanumerical fields200• Number of numerical fields per image200• Number of numerical fields per image200		
Number of date/time fields200ReturnYesGraphics objectBit maps, icons, vector graphics- lcons1 000Complex image objects• Status/controlYes; With SIMATIC S7• dynamic objects per projectDiagrams, bar graphs, sliders, analog display, invisible buttons- Number of objects per project1 000- Number of curve diagrams per image10• MethodsTrend / profile• Bar graphs Number of slides per image10• Stiders Number of slides per image10• Number of slides per image10• Number of slides per image10• Number of alphanumerical fields300- alphanumeric fields per image200• Number of numerical fields per image200		10 000 text elements
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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       10         - Number of bars per chart       10         • Sliders       10         - Number of slides per image       10         • Pointer instruments       10         - 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	Graphics object	Bit maps, icons, vector graphics
Status/controlYes; With SIMATIC S7• dynamic objectsDiagrams, bar graphs, sliders, analog display, invisible buttons- Number of objects per project1 000- Number of curve diagrams per image10• MethodsTrend / profile• Bar graphs10- Number of bars per chart10• Sliders10- Number of slides per image10• Number of slides per image10• Number of slides per image10• Number of analog indicators per image10• Limit value linesYes• Number of alphanumerical fields300- alphanumeric fields per image200• Number of numerical fields per image200	— Icons	1 000
• dynamic objectsDiagrams, bar graphs, sliders, analog display, invisible buttons- Number of objects per project1 000- Number of curve diagrams per image10• MethodsTrend / profile• Bar graphs Number of bars per chart10• Number of slides per image10• Number of slides per image10• Number of slides per image10• Number of analog indicators per image10• Number of analog indicators per image10• Number of alphanumerical fieldsYes• Number of alphanumerical fields300- alphanumeric fields per image200• Number of numerical fields2 048- numerical fields per image200	Complex image objects	
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Number of curve diagrams per image10• MethodsTrend / profile• Bar graphs10 Number of bars per chart10• Sliders Number of slides per image10• Pointer instruments Number of analog indicators per image10• Limit value linesYes• Number of alphanumerical fields300 alphanumerical fields per image200• Number of numerical fields per image2048 numerical fields per image200	dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
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- Number of bars per chart10• Sliders10- Number of slides per image10• Pointer instruments10- Number of analog indicators per image10• Limit value linesYes• Number of alphanumerical fields300- alphanumeric fields per image200• Number of numerical fields2 048- numerical fields per image200	Methods	Trend / profile
<ul> <li>Sliders         <ul> <li>Number of slides per image</li> <li>Pointer instruments</li> <li>Number of analog indicators per image</li> <li>Limit value lines</li> <li>Number of alphanumerical fields</li> <li>alphanumeric fields per image</li> <li>Number of numerical fields</li> <li>Q00</li> </ul> </li> <li>Number of numerical fields</li> <li>Q00</li> </ul>	Bar graphs	
Number of slides per image10• Pointer instruments10 Number of analog indicators per image10• Limit value linesYes• Number of alphanumerical fields300 alphanumeric fields per image200• Number of numerical fields2 048 numerical fields per image200		10
<ul> <li>Pointer instruments         <ul> <li>Number of analog indicators per image</li> <li>Limit value lines</li> <li>Number of alphanumerical fields</li> <li>Number of alphanumerical fields</li> <li>alphanumeric fields per image</li> <li>Number of numerical fields</li> <li>Q00</li> </ul> </li> <li>Number of numerical fields</li> <li>Q00</li> <li>Q00</li> <li>Q00</li> </ul>		
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• 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		
<ul> <li>Number of alphanumerical fields</li> <li>alphanumeric fields per image</li> <li>Number of numerical fields</li> <li>2 048</li> <li>numerical fields per image</li> <li>200</li> </ul>		
— alphanumeric fields per image200• Number of numerical fields2 048— numerical fields per image200		
Number of numerical fields 2 048		
— numerical fields per image 200		
Number of password fields     2 048		
	<ul> <li>Number of password fields</li> </ul>	2 048

<ul> <li>Number of visible switches per project</li> </ul>	200
<ul> <li>visible switches per image</li> </ul>	200
<ul> <li>hidden switches per image</li> </ul>	200
<ul> <li>Number of status switches per project</li> </ul>	200
<ul> <li>— Number of status switches per image</li> </ul>	200
<ul> <li>Number of selector switches per project</li> </ul>	200
— Selector switches per image	200
Number of decade switches per project	200
— Decade switches per image	200
<ul> <li>Number of signal lamps per project</li> </ul>	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
	256
Number of entries per graphics list     Archiving	230
Number of archives per device	20
	20
Number of measuring points per project	
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
<ul> <li>Data storage format</li> </ul>	
— CSV	Yes
<ul> <li>Online evaluation</li> </ul>	
— using trend curves	Yes
Filters	
• cyclic	Yes
Tolerance	Yes
Change	Yes
Security	
<ul> <li>Number of user groups</li> </ul>	50
<ul> <li>Number of user rights</li> </ul>	32
<ul> <li>Password export/import</li> </ul>	Yes
Logging through printer	
Recording/Printing	Alarms, report (shift report), PROFINET
Transfer (upload/download)	
<ul> <li>Transfer of configuration</li> </ul>	USB, Ethernet, automatic transfer recognition
Wireless LAN	Yes
Process coupling	
<ul> <li>Connection to controller</li> </ul>	S7-200, S7- 300/400 see section on "System interfaces"
• S7-1200	Yes
• S7-1500	Yes; As of V13 SP1 Update 4, PROFIsafe communication also possible
• S7-200	Yes
— Ethernet	Yes
• S7-300/400	Yes
- PROFINET	Yes
SIMOTION	Yes; WinCC flexible 2008 SP3 or higher

70000	Vec
• Zones	Yes
— Number of zones per project, max.	254
<ul> <li>Number of transponders for zones per project, max.</li> </ul>	255
<ul> <li>Effective range</li> </ul>	Yes
<ul> <li>— Number of effective ranges per project, max.</li> </ul>	127
<ul> <li>Number of transponders for effective ranges per project, max.</li> </ul>	127
Transponder	Yes
<ul> <li>— Number of transponders per project, max.</li> </ul>	256
<ul> <li>adjustable distance range</li> </ul>	Yes
— adjustable distance, min.	2 m
— adjustable distance, max.	8 m
Functions	
TAB sequence	Yes
<ul> <li>Calculating functions</li> </ul>	Yes
Animate	Yes
Service tools/configuration aids	
Clean screen	Yes
<ul> <li>Touch calibration</li> </ul>	Yes
<ul> <li>Backup/Restore manually</li> </ul>	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
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