SIEMENS

Data sheet

6AV2124-0XC24-0AX0

SIMATIC HMI TP2200 Comfort Pro, for support arm (not expandable, flange on top), Comfort Panel, touch operation, 22" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP



| General information | |
|---|----------------------------|
| Product type designation | TP2200 Comfort PRO |
| Display | |
| Design of display | TFT |
| Screen diagonal | 21.5 in |
| Display width | 475.2 mm |
| Display height | 267.3 mm |
| Number of colors | 16 777 216 |
| Resolution (pixels) | |
| Horizontal image resolution | 1 920 pixel |
| Vertical image resolution | 1 080 pixel |
| Backlighting | |
| MTBF backlighting (at 25 °C) | 30 000 h |
| Backlight dimmable | Yes; 0-100 % |
| Control elements | |
| Keyboard fonts | |
| Function keys | |
| — Number of function keys | 0 |
| — Number of function keys with LEDs | 0 |
| Keys with LED | No |
| System keys | No |
| Numeric keyboard | Yes; Onscreen keyboard |
| alphanumeric keyboard | Yes; Onscreen keyboard |
| Touch operation | |
| Design as touch screen | Yes; Projective-capacitive |
| Expansions for operator control of the process | |
| Direct keys (touch buttons as S7 input I/O) | 40 |
| Installation type/mounting | |
| Mounting | Support arm |
| Mounting position | vertical |
| Mounting in portrait format possible | No |
| Mounting in landscape format possible | Yes |
| maximum permissible angle of inclination without external ventilation | 35° |
| Supply voltage | |
| Type of supply voltage | DC |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |

| Active consumption (rated value) 1.8 A Starting current inpush Pt 0.5 Arts Processor Processor Processor Type X66 Memory Processor Fibal Yes FAdre power input, typ. Yes For LED No Accounts Yes - Signakar Yes - Signatin f | Input current | |
|---|--|---|
| Starting current innush Pt 0.5 A*s Prover 44 W Processor Processor Processor type X86 Memory Falsh Yes KaM Yes Yes RAM Yes Memory variable for user data 24 Mbyte Type of output No Info LED No Orwer LED No - Speaker Yes • Bucking Yes • Backing Yes • Speaker Yes • Speaker Yes • Backing Cook Yes • Software clock (real-line) Yes • Inderline Yes • Inderline Yes • Software clock Yes • Software clock Yes • Software clock Yes • Inderline Yes • Inderline Yes Number of R Soft Software clock 2 Number of R Soft Software clock 2 <td></td> <td>1.8 A</td> | | 1.8 A |
| Power 44 W Active power input. typ. 44 W Processor type X86 Memory Flash Flash Yes Memory available for user data 24 Mbyte Type of output Infinite Infinite No Processor No Prover ED No Costation No - Subvaria clock (real-time) Yes - Subvaria clock Yes Number of | | |
| Active power input, typ. 44 W Processor Processor Processor X86 Memory Yes Fish Yes RAM Yes Memory variable for user data 24 Mbyte Type of output No Info LED No Orwert LED No - Spacer Yes - Buzzer No - Spacer Yes - Indriver Yes - Standard Yes - Instance clock Yes - Standard Yes Numbor of Nachard Interfaces 1.84 422 Interfaces Numbor of P | | 0.5 A 3 |
| Processor type X86 Memory Flash Yes Flash Yes Memory available for user data 24 Mbyte Type of output Processor 24 Mbyte Yes Info LED No Processor No Form LED No Processor No - Suzzer No Separker Yes - Ruszer No Separker Yes - Clock Yes Set/ware clock Yes - Itard Mare clock (real-time) Yes Yes Set/ware clock - retentive Yes: Back up duration typically 6 weeks Yes - retentive Yes: Back up duration typically 6 weeks Yes - with rot of the dutation therfaces 2: 2 ports (witch) + independent port No Number of the dutation therfaces 1: R8 422: 485 combined No No Number of RS 425 interfaces 0 Number of RS 425 interfaces 0 Number of RS 425 interfaces 0 Number of PR 43 interfaces No 10 Number of PR 43 interfaces 0 | | 44.101 |
| Processor type X88 Manacy Fish Fish Yes RAM Yes Memory available for user data 24 Mbyte Type of output No Info LED No Prover LED No - Counting No - Speaker Yes - Speaker Yes - Clock Yes - Indivator clock (real-time) Yes - Speaker Yes - Statware clock (real-time) Yes - Software clock (real-time) Yes - Indivator clock (real-time) Yes - Indivator clock (real-time) Yes - Indivator clock (real-time) Yes - Ves Status of day Clock Yes - Indivator clock (real-time) Yes - Number of Indivator clock (real-time) Yes - Number of Indivator clock (real-time) Yes Number of Indivator clock (real-time) Yes Number of Indivator clock (real-time) Yes Number | | 44 VV |
| Memory Flash Yes FRAM Yes FRAM Flash Yes Accumption InfloctED No Flash Prover LED No Flash Entror LED No Flash Accuatios No Flash - Buzzer No Speaker Yes Speaker Yes Clock Yes Software clock (real-time) - Hardware dock (real-time) Yes Software clock - Istendiva Yes Software clock - Indevidate Ethernet Interfaces 2: 2 ports (switch) + independent port Number of Industrial Ethernet Interfaces 2: 2 ports (switch) + independent port Number of Industrial Ethernet Interfaces 0 Number of IS 22: Interfaces Number of Industrial Ethernet Interfaces 2; USB 2: 0 Number of IS 22: Interfaces Number of IS 22: Interfaces 0 No Industrial Ethernet Interfaces Number of IS 22: Interfaces 0 No Industrial Ethernet Interfaces Number of Interfaces 0 | | |
| Flash Yes RAM Yes RAM Yes Memory available for user data 24 Mityde Type of output Info LED Info LED No Power LED No Accoustics No • Buzzar No • Speaker Yes Time of day Clock Clock Yes • Hardware clock (real-time) Yes • Sopeaker Yes • Sopeaker Yes • Software clock (real-time) Yes • Software clock Yes • Software clock Yes • Inderfaces 2: 2 ports (witch) + independent port Number of Industrial Element interfaces 1: R4 22: 485 combined Number of R4 380 interfaces 0 Number of R5 480 interfaces 1: UBS 2.0 Number of S1 Interfaces 0 Number of S23 interfaces 0 Number of S23 interfaces 0 Number of S23 interfaces 1: USB 2.0 Number of S1 Interfaces 0 Number of S23 interfaces 0 Number of S1 Interfaces 0 Number of Orb interfaces 0 Number of Orb Interfaces 0 Numb | | X86 |
| FAM Yes Memory available for user data 24 Mityte Type of output 24 Mityte Info LED No Power LED No Error LED No Accountios No • Buzzer No • Buzzer No • Buzzer No • Software clock (real-line) Yes • Inter of ady | Memory | |
| Memory available for user data 24 Mbyte Type of output No Info LED No Power LED No Error LED No - Speaker Yes Time of day Image: Clock Clock Yes - Speaker Yes Clock Yes - Interview Yes; Backup duration typically 6 weeks - speaker Yes - Interview Yes; Backup duration typically 6 weeks - synchronizable Yes Interfaces 2: 2 ports (switch) + independent port Number of RS 422 Interfaces 1: RS 422 448 combined Number of TS 232 Interfaces 0 Number of TS 422 Interfaces 0 Number of TS 422 Interfaces 0 Number of TS 232 Interfaces 0 Number of TS 232 Interfaces 0 Number of SD 2ard slots 2 Veth software interfaces 0 Number of SD acid slots 2 Veth software interfaces No Industrial Ethernet 3 - Industrial Ethernet 3 - Number of Of the interfaces No Industrial Ethernet 4 - Number of Of the interfaces No - | | |
| Type of output No Info LED No Power LED No Acoustics No • Bizzer No • Speaker Yes Time of day Iter full Clock Yes • Hardware clock (real-time) Yes • Software clock Yes • Software clock Yes • Interfaces Yes Number of Industrial Ethemet interfaces 2:2 ports (switch) + independent port Number of RS 495 interfaces 0; together with RS 485 Number of RS 242 interfaces 0; together with RS 485 Number of RS 242 interfaces 0; together with RS 485 Number of RS 242 interfaces 0; together with RS 485 Number of RS 242 interfaces 0; Number of S 10 mA interfaces 0; Number of S 242 interfaces 0; | | |
| Info LED No Prower LED No Acoustics No • Buzzar No • Speaker Yes Time of day Clock • Hardware clock (real-time) Yes • Software clock Yes • Software clock Yes • software clock Yes • software clock Yes • Interfaces 2: 2 ports (switch) + independent port Number of Industrial Ethemet Interfaces 1: RS 422 / 485 combined Number of RS 422 Interfaces 0 Number of RS 422 Interfaces 0 Number of RS 422 Interfaces 0 Number of PS 323 Interfaces 0 Number of DS Binterfaces 2; USB 2.0 Number of other interfaces 0 Number of other interfaces 0 Number of Darad slots 2 With software interfaces No Industrial Ethemet interfaces 0 • Industrial Ethemet interfaces 1 • Industrial Ethemet interfaces No Industrial Eth | | 24 Mbyte |
| Power LED No Error LED No Acoustics No • Buzzer No • Speaker Yes Time of day Yes Clock Yes • Hardware clock (real-time) Yes • Soptware clock Yes • Software clock Yes • Software clock Yes • Inderfaces Yes Number of Industrial Ethernet Interfaces 2: 2 ports (switch) + independent port Number of RS 455 interfaces 0 Number of S2 221 interfaces 0 Number of 250 rad interfaces 0 Number of 250 rad interfaces 0 Number of Deard slots 2 With software interfaces No Industrial Ethernet staus LED 3 • Number of ports of the integrated switch 2 Protocol Yes PROFIBUS Yes | Type of output | |
| Error LED No Accustics No • Buzzer No • Speaker Yes Time of day Clock Clock Yes • Software clock (real-lime) Yes • software clock Yes • retentive Yes; Backup duration typically 6 weeks • synchronizable Yes; Backup duration typically 6 weeks Interfaces 2: 2 ports (switch) + independent port Number of RS 4456 interfaces 1: RS 422 / 485 combined Number of RS 1456 interfaces 0 Number of RS 1456 interfaces 0 Number of RS 151 interfaces 0 Number of RS 151 interfaces 0 Number of RS 1100 interfaces 0 Number of SD interfaces 10 Vith software intenfaces 0 | Info LED | No |
| Acoustics No • Buzzer No • Speaker Yes Time of day Clock • Hardware clock (real-time) • Yes, Back-up duration typically 6 weeks • synchronizable Yes • Number of Industrial Ethernet interfaces Yes Number of Industrial Ethernet interfaces 1: R5 422 / 485 combined Number of RS 485 interfaces 0: together with RS 485 Number of RS 222 interfaces 0; together with RS 485 Number of RS 422 interfaces 0 Number of Day Interfaces (TTY) 0 Number of Day Interfaces 0 <t< td=""><td>Power LED</td><td>No</td></t<> | Power LED | No |
| • Buzzer No • Speaker Yes • Hardware clock (real-time) Yes • Software clock Yes • estentive Yes, Back-up duration typically 6 weeks • synchronizable Yes Interfaces 2: 2 ports (switch) + independent port Number of industrial Ethernet interfaces 2: 2 ports (switch) + independent port Number of RS 422 interfaces 0: together with RS 485 Number of RS 422 interfaces 0 Number of Dis Binterfaces 0 Number of RS 422 interfaces 0 Number of S 422 interfaces 0 Number of RS 422 interfaces 0 | Error LED | No |
| Speaker Time of day Time of day Clock Hardware clock (real-lime) Yes Software clock So | Acoustics | |
| Time of day Clock • Hardware clock (real-time) Yes • software clock Yes • ettentive Yes • synchronizable Yes Interfaces 1: R5 422 / 485 combined Number of R5 425 Interfaces 1: R5 422 / 485 combined Number of R5 425 Interfaces 0: together with RS 485 Number of R5 425 Interfaces 0 Number of USB Interfaces 0 Number of DS 422 Interfaces 0 Number of DS 425 Interfaces 0 Number of DS 425 Interfaces 0 Number of JS 23 Interfaces 0 Number of JS card slots 2 With software interfaces 0 Number of Doral slots 2 • Number of DFPOFINET Yes Supports protocol for PROFINET IO Yes PROFINET Yes DFPOP Yes PROFI | • Buzzer | No |
| Clock Yes Software clock Yes retentive yes; Back-up duration typically 6 weeks synchronizable Yes Number of Industrial Ethernet Interfaces 2; 2 ports (switch) + independent port Number of RS 422 interfaces 0; together with RS 485 Number of RS 422 interfaces 0; together with RS 485 Number of RS 422 interfaces 0; together with RS 485 Number of RS 422 interfaces 0; together with RS 485 Number of Dam Interfaces 10 An Interfaces<!--</td--><td></td><td>Yes</td> | | Yes |
| • Hardware clock (real-time) Yes • Software clock Yes • etenthive Yes: Back-up duration typically 6 weeks • synchronizable Yes Intorfaces Yes Number of Industrial Ethernet interfaces 1; RS 422 / 485 combined Number of RS 485 interfaces 0; together with RS 486 Number of RS 482 interfaces 0 Number of RS 482 interfaces 0 Number of RS 232 interfaces 0 Number of RS 232 interfaces 0 Number of Dariallel interfaces 0 Number of Dariallel interfaces 0 Number of other interfaces No Industrial Ethernet 2 • Industrial Ethernet status LED 3 • Number of protocol for PROFINET IO Yes PROFIBUS Yes EtherNet/IP Yes MPI Yes • DHCP Yes • DHCP Yes • LLDP Yes • LTML Ye | Time of day | |
| Software clock Ves etentive Ves Ves etentive Ves Ves Surber of industrial Ethernet interfaces Z 2 ports (switch) + independent port Number of RS 485 interfaces 1; RS 422 / 485 combined Number of RS 422 interfaces U together with RS 485 Number of RS 22 interfaces U together with RS 485 Number of RS 22 interfaces U together with RS 485 Number of RS 22 interfaces U together with RS 485 Number of AS 22 interfaces U together with RS 485 Number of RS 22 interfaces U together with RS 485 Number of AS 22 interfaces U together with RS 485 Number of AS 22 interfaces U together with RS 485 Number of 20 mA interfaces Ves Number of SD card slots Z USB 2.0 Number of SD card slots Z Ves Number of SD card slots Z Ves Number of SD card slots Z Ves Number of ports of the integrated switch PROFINET Number of ports of the integrated switch PROFINET Ves Number of ports of the integrated switch PROFINET Ves Number of PROFINET IO Yes Ves Number of PROFINET Ves Number of | Clock | |
| retentive Yes; Back-up duration typically 6 weeks yes reterive Yes reterive Groutstrial Ethernet interfaces 2: 2 ports (switch) + independent port Number of RS 435 interfaces 1; RS 422 / 485 combined Number of RS 435 interfaces 0; together with RS 485 Number of RS 232 interfaces 0 Number of RS 232 interfaces 0 Number of PS 232 interfaces 0 Number of arallel interfaces 2; USB 2.0 Number of 2 parallel interfaces 0 Number of 2 parallel interfaces 0 Number of 2 parallel interfaces 0 Number of 20 card slots 2 Wth software interfaces 0 Number of soft soft be integrated switch 1 endustrial Ethernet status LED industrial Ethernet status LED industrial Ethernet status LED industrial Ethernet status LED industrial Ethernet status Protocols Protocols Protocols Protocols Protocols Protocols Protocols Protocols Protocols Yes inft interface inft: intPrice Yes intPrice Yes intPrice Yes intPrice Yes intPrice interfaces interinterface interfaces interfaces interfaces interi | Hardware clock (real-time) | Yes |
| • synchronizable Yes Interfaces Number of Industrial Ethernet interfaces 2; 2 ports (switch) + independent port Number of RS 425 interfaces 1; RS 422 / 485 combined Number of RS 425 interfaces 0 Number of RS 425 interfaces 0; together with RS 485 Number of USB interfaces 0 Number of USB interfaces 2; USB 2.0 Number of 20 mÅ interfaces (TTY) 0 Number of 3D card slots 2 With software interfaces 0 Number of 5D card slots 2 With software interfaces 0 Number of soft the integrated switch 2 Protocols * Protocols * PROFINET Yes Supports protocol or PROFINET IO Yes PROFIBUS Yes EtherNetIP Yes PROFIBUS Yes EtherNetIP Yes • OCP Yes • DCP Yes • ULDP Yes • HTTP Yes • HTTP Yes • HTTPS Yes • HTTPS Yes • HTTML Yes • HTTML Yes • HTTML Yes < | Software clock | Yes |
| Interfaces Number of Industrial Ethernet interfaces 2; 2 ports (switch) + independent port Number of RS 485 interfaces 0; together with RS 485 Number of RS 232 interfaces 0 Number of USB interfaces 0; USB interfaces Number of USB interfaces 0; USB 2.0 Number of 20 mA interfaces (TTY) 0 Number of Data interfaces 0 Number of Data interfaces 0 Number of Data isols 2 With software interfaces 0 Number of Data isols 2 With software interfaces 0 Industrial Ethernet 3 • Industrial Ethernet status LED 3 • Number of pros of the integrated switch 2 Protocols Yes PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes PROFIBUS Yes Protocols (Ethernet) Yes • DCP Yes • SNMP Yes • DCP Yes • LLDP Yes </td <td>retentive</td> <td>Yes; Back-up duration typically 6 weeks</td> | retentive | Yes; Back-up duration typically 6 weeks |
| Number of Industrial Ethernet interfaces 2; 2 ports (switch) + independent port Number of RS 435 interfaces 1; RS 422 / 485 combined Number of RS 232 interfaces 0 Number of RS 232 interfaces 0 Number of USB interfaces 0 Number of DS 232 interfaces 0 Number of other interfaces 0 Number of other interfaces 0 Number of SD card slots 2 Vith software interfaces 0 Number of parallel interfaces 0 Number of other interfaces 0 Number of other interfaces 0 Number of other interfaces No Industrial Ethernet 3 • Industrial Ethernet status LED 3 • Number of ports of the integrated switch 2 Protocols Protocols for PROFINET IO Yees Yees PROFIBUS Yees EtherNet/IP Yees MPI Yees Protocols (Ethernet) Yees • DHCP Yees • SNMP Yees • LLDP Yees • HTTPS Yees <td>synchronizable</td> <td>Yes</td> | synchronizable | Yes |
| Number of RS 425 interfaces 1; RS 422 / 485 combined Number of RS 422 interfaces 0; together with RS 485 Number of USB interfaces 0 Number of USB interfaces 0 Number of USB interfaces 2; USB 2.0 Number of DusB interfaces 0 Number of DusB interfaces 0 Number of other interfaces 0 Industrial Ethernet 0 • Industrial Ethernet 3 • Industrial Ethernet 3 • Number of PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes PROFIBUS Yes EtherNet/IP Yes MPI Yes • DHCP Yes • DHCP Yes • SIMMP Yes • DCP Yes • LLDP Yes • HTTPS Yes • HTTML Yes • XML Yes • Active X Yes | Interfaces | |
| Number of RS 422 interfaces 0; together with RS 485 Number of RS 232 interfaces 0 Number of USB interfaces 2; USB 2.0 Number of Darallel interfaces 0 Number of parallel interfaces 0 Number of other interfaces 0 Number of SD card slots 2 With software interfaces 0 Number of ports of the integrated switch 2 Protocols 1 PROFINET Yes PROFINET Yes PROFIBUS Yes PROFIBUS Yes Protocols Yes PROFIBUS Yes PROFOSOS (Ethernet) Yes • TCP/IP Yes • DHCP Yes • DHCP Yes • DHCP Yes • LLDP Yes • HTTIP Yes • HTTP Yes • HTTP Yes • HTTIP Yes • HTML Yes • HTML Yes • Active X Yes | Number of industrial Ethernet interfaces | 2; 2 ports (switch) + independent port |
| Number of RS 232 Interfaces 0 Number of USB Interfaces 2; USB 2.0 Number of 20 mA Interfaces (TTY) 0 Number of parallel interfaces 0 Number of other interfaces 0 Number of SD card slots 2 With software interfaces 0 Number of SD card slots 2 With software interfaces No Industrial Ethernet • • Industrial Ethernet 3 • Number of ports of the integrated switch 2 PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • DHCP Yes • SIMNP Yes • DLCP Yes • LLDP Yes • HTTPS Yes • HTTPS Yes • HTTP Yes • Active X Yes | Number of RS 485 interfaces | 1; RS 422 / 485 combined |
| Number of USB interfaces2; USB 2.0Number of 20 mA interfaces (TTY)0Number of parallel interfaces0Number of other interfaces0Number of SD card slots2With software interfacesNoIndustrial Ethernet0• Industrial Ethernet status LED3• Number of ports of the integrated switch2Protocols7PROFINETYesSupports protocol for PROFINET IOYesIRTYesPROFIBUSYesEtherNet/IPYesMPIYesOHCPYesUPCOCOISYesPROFIBUSYesUPCOYesUPCOYesUPCOYesUPCOYes• TCP/IPYes• DHCPYes• DCPYes• LLDPYes• HTTPYes• HTTPSYes• HTTPSYes• Attive XYes• Active XYes | Number of RS 422 interfaces | 0; together with RS 485 |
| Number of 20 mA interfaces (TTY) 0 Number of parallel interfaces 0 Number of other interfaces 0 Number of SD card slots 2 With software interfaces No Industrial Ethernet 0 • Industrial Ethernet 3 • Number of ports of the integrated switch 2 Protocols 2 PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes PROFIBUS Yes EtherNet/IP Yes MPI Yes • CP/IP Yes • SIMP Yes • DLCP Yes • LLDP Yes WEB characteristics Ves • HTTPS Yes • HTTPS Yes • HTML Yes • Active X Yes | Number of RS 232 interfaces | 0 |
| Number of parallel interfaces 0 Number of other interfaces 0 Number of SD card slots 2 With software interfaces No Industrial Ethernet • • Industrial Ethernet 3 • Number of ports of the integrated switch 2 PROFINET Yes Supports protocol for PROFINET IO Yes PROFIBUS Yes EtherNet/IP Yes PROcoils (Ethernet) Yes • TCP/IP Yes • DHCP Yes • SIMP Yes • DCP Yes • LLDP Yes • HTTP Yes • HTTPS Yes • HTTPS Yes • HTTPS Yes • HTTPS Yes • HTML Yes • Addite X Yes | Number of USB interfaces | 2; USB 2.0 |
| Number of other interfaces0Number of SD card slots2With software interfacesNoIndustrial Ethernet-Industrial Ethernet status LED3• Number of ports of the integrated switch2ProtocolsPROFINETYesSupports protocol for PROFINET IOYesIRTYesPROFIBUSYesEtherNet/IPYesProtocols (Ethernet)Yes• TCP/IPYes• DHCPYes• DHCPYes• LLDPYes• MTPYes• CP/IPYes• MTPYes• MTPYes• CSSYes• HTTPSYes• Active XYes• Active XYes | Number of 20 mA interfaces (TTY) | 0 |
| Number of SD card slots2With software interfacesNoIndustrial Ethernet3• Industrial Ethernet status LED3• Number of ports of the integrated switch2ProtocolsPROFINETYesSupports protocol for PROFINET IOYesIRTYesPROFIBUSYesEtherNet/IPYesProtocols (Ethernet)Yes• TCP/IPYes• DHCPYes• DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSYes• MILYes• MILYes• Active XYes | Number of parallel interfaces | 0 |
| With software interfaces No Industrial Ethernet 3 • Industrial Ethernet status LED 3 • Number of ports of the integrated switch 2 Protocols * PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes PROFIBUS Yes EtherNet/IP Yes MPI Yes Protocols (Ethernet) Yes • TCP/IP Yes • DHCP Yes • SIMMP Yes • LLDP Yes WEB characteristics Yes • HTTPS Yes • HTTPS Yes • KML Yes • Active X Yes | Number of other interfaces | 0 |
| Industrial Ethernet• Industrial Ethernet status LED3• Number of ports of the integrated switch2ProtocolsPROFINETYesSupports protocol for PROFINET IOYesIRTYesPROFIBUSYesEtherNet/IPYesMPIYesOLCPYes• LLDPYes• HTTPYes• MELYes• CCPYes• SNMPYes• SNMPYes• CCPYes• MELYes• CCPYes• MTHYes• MELYes• CCPYes• CCPYes• MTHYes• MELYes• MTTPYes• MTHYes• Active XYes• Active XYes | Number of SD card slots | 2 |
| Industrial Ethernet status LED 3 Number of ports of the integrated switch 2 Protocols PROFINET Yes Supports protocol for PROFINET IO Yes IRT Yes PROFIBUS Yes EtherNet/IP Yes EtherNet/IP Yes Protocols (Ethernet) TCP/IP Yes SNMP Yes SNMP Yes SNMP Yes ULDP Yes ULDP Yes WEB characteristics HTTP Yes HTTPS Yes XML Yes XML Yes XML Yes XML Yes Yes XML Yes Yes | With software interfaces | No |
| • Number of ports of the integrated switch2ProtocolsPROFINETYesSupports protocol for PROFINET IOYesIRTYesPROFIBUSYesEtherNet/IPYesMPIYesProtocols (Ethernet)Yes• TCP/IPYes• DHCPYes• DLCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSYes• HTTPSYes• MILYes• Active XYes | Industrial Ethernet | |
| ProtocolsPROFINETYesSupports protocol for PROFINET IOYesIRTYesPROFIBUSYesEtherNet/IPYesMPIYes• TCP/IPYes• DHCPYes• DHCPYes• DLDPYes• LLDPYesWEB characteristics• HTTPSYes• HTMLYes• XMLYes• Active XYes | Industrial Ethernet status LED | 3 |
| PROFINETYesSupports protocol for PROFINET IOYesIRTYesPROFIBUSYesEtherNet/IPYesMPIYes• TCP/IPYes• DHCPYes• DCPYes• LLDPYesWEB characteristics• HTTPSYes• HTMLYes• XMLYes• XMLYes• XMLYes• Active XYes | Number of ports of the integrated switch | 2 |
| Supports protocol for PROFINET IOYesIRTYesPROFIBUSYesEtherNet/IPYesMPIYesProtocols (Ethernet)Yes• TCP/IPYes• DHCPYes• DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSYes• KMLYes• KMLYes• KMLYes• KMLYes• KMLYes• KMLYes• KMLYes• KMLYes• Active XYes | Protocols | |
| IRTYesPROFIBUSYesEtherNet/IPYesMPIYesProtocols (Ethernet)Yes• TCP/IPYes• DHCPYes• SNMPYes• DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSYes• KMLYes• XMLYes• KMLYes• Active XYes | PROFINET | Yes |
| PROFIBUSYesEtherNet/IPYesMPIYesProtocols (Ethernet)Yes• TCP/IPYes• DHCPYes• SNMPYes• DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSYes• HTMLYes• XMLYes• XMLYes• Active XYes | Supports protocol for PROFINET IO | Yes |
| EtherNet/IPYesMPIYesProtocols (Ethernet)Yes• TCP/IPYes• DHCPYes• SNMPYes• DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSYes• HTMLYes• XMLYes• XMLYes• Active XYes | IRT | Yes |
| MPIYesProtocols (Ethernet)Yes• TCP/IPYes• DHCPYes• SNMPYes• DCPYes• LLDPYesWEB characteristicsYes• HTTPSYes• HTTPSYes• HTMLYes• XMLYes• CSSYes• Active XYes | PROFIBUS | Yes |
| Protocols (Ethernet)• TCP/IPYes• DHCPYes• SNMPYes• DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSYes• HTMLYes• KMLYes• Active XYes | EtherNet/IP | Yes |
| • TCP/IPYes• DHCPYes• SNMPYes• DCPYes• LLDPYes• KEB characteristicsYes• HTTPYes• HTTPSYes• HTTPSYes• HTMLYes• CSSYes• Active XYes | MPI | Yes |
| • DHCPYes• SNMPYes• DCPYes• LLDPYes• KEB characteristicsYes• HTTPYes• HTTPSYes• HTMLYes• KMLYes• CSSYes• Active XYes | Protocols (Ethernet) | |
| • SNMPYes• DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSYes• HTMLYes• SNMLYes• CSSYes• Active XYes | | |
| • DCPYes• LLDPYesWEB characteristicsYes• HTTPYes• HTTPSYes• HTMLYes• KMLYes• CSSYes• Active XYes | | |
| LLDPYesWEB characteristics• HTTPYes• HTTPSYes• HTMLYes• XMLYes• CSSYes• Active XYes | | |
| WEB characteristics• HTTPYes• HTTPSYes• HTMLYes• XMLYes• CSSYes• Active XYes | | |
| HTTPYesHTTPSYesHTMLYesXMLYesCSSYesActive XYes | | Yes |
| HTTPS Yes HTML Yes XML Yes CSS Yes Active X Yes | | |
| HTMLYesXMLYesCSSYesActive XYes | | |
| • XML Yes • CSS Yes • Active X Yes | | |
| CSS Yes Active X Yes | | |
| Active X Yes | | |
| | | |
| • JavaScript Yes | | |
| | JavaScript | Yes |

| ● Java VM | No |
|--|------------------------------------|
| Redundancy mode | |
| Media redundancy | |
| — MRP | Yes |
| Further protocols | |
| • CAN | No |
| MODBUS | Yes |
| Interrupts/diagnostics/status information | |
| Diagnoses | |
| Diagnostic information readable | Yes; S7 controller |
| EMC | |
| Emission of radio interference acc. to EN 55 011 | |
| Limit class A, for use in industrial areas | Yes |
| Limit class B, for use in residential areas | No |
| Degree and class of protection | |
| IP (at the front) | IP65 |
| IP (rear) | IP65 |
| NEMA (front) | |
| Enclosure Type 4 at the front | Yes |
| Enclosure Type 4x at the front | Yes |
| Standards, approvals, certificates | |
| CE mark | Yes |
| cULus | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | No; Available soon |
| EAC (formerly Gost-R) | No; Available soon |
| Ambient conditions | |
| Suited for indoor use | Yes |
| Suited for outdoor use | No |
| Ambient temperature during operation | |
| Operation (vertical installation) | |
| — For vertical installation, min. | 0°0 |
| — For vertical installation, max. | 45 °C |
| Operation (max. tilt angle) | |
| — At maximum tilt angle, min. | 0°0 |
| — At maximum tilt angle, max. | 40 °C |
| Ambient temperature during storage/transportation | |
| • min. | -20 °C |
| • max. | 60 °C |
| Relative humidity | |
| Operation, max. | 90 %; no condensation |
| Operating systems | |
| proprietary | No |
| pre-installed operating system | Vee Windows Embedded Comment 0040 |
| Windows CE | Yes; Windows Embedded Compact 2013 |
| configuration / header | No. |
| Message indicator | Yes |
| Alarm system (incl. buffer and acknowledgment) | Yes |
| Process value display (output) | Yes |
| Process value default (input) possible | Yes |
| Recipe management Configuration software | 100 |
| STEP 7 Basic (TIA Portal) | No |
| STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal) | No |
| WinCC flexible Compact | No |
| WinCC flexible Standard | No |
| WinCC flexible Advanced | No |
| WinCC Basic (TIA Portal) | No |
| WinCC Comfort (TIA Portal) | Yes; V14 SP1 HSP and higher |
| | |

| WinCC Advanced (TIA Portal) | Yes; V14 SP1 HSP and higher |
|--|-----------------------------|
| WinCC Professional (TIA Portal) | Yes; V14 SP1 HSP and higher |
| Languages | |
| Online languages | |
| Number of online/runtime languages | 32 |
| Project languages | |
| Languages per project | 32 |
| Functionality under WinCC (TIA Portal) | |
| Libraries | Yes |
| Applications/options | |
| Web browser | Yes |
| Pocket Word | Yes |
| Pocket Excel | Yes |
| PDF Viewer | Yes |
| Media Player | Yes |
| SIMATIC WinCC Sm@rtServer | Yes |
| SIMATIC WinCC Audit | Yes |
| Number of Visual Basic Scripts | Yes |
| Task planner | |
| time-controlled | Yes |
| task-controlled | Yes |
| Message system | |
| Number of alarm classes | 32 |
| Bit messages | |
| Number of bit messages | 6 000 |
| Analog messages | |
| Number of analog messages | 200 |
| S7 alarm number procedure | Yes |
| System messages HMI | Yes |
| • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) | Yes |
| Number of characters per message | 80 |
| Number of process values per message | 8 |
| Acknowledgment groups | Yes |
| Message indicator | Yes |
| Recipe management | |
| Number of recipes | 500 |
| Data records per recipe | 1 000 |
| Entries per data record | 2 000 |
| Size of internal recipe memory | 4 Mbyte |
| Recipe memory expandable | Yes |
| Variables | 4.006 |
| Number of variables per device Number of variables per screen | 4 096 400 |
| Number of variables per screen Limit values | Yes |
| | Yes |
| Multiplexing Structures | Yes |
| Arrays | Yes |
| Images | |
| Number of configurable images | 750 |
| Permanent window/default | Yes |
| Global image | Yes |
| Pop-up images | Yes |
| Slide-in images | Yes |
| Image selection by PLC | Yes |
| Image number in the PLC | Yes |
| Image objects | |
| Number of objects per image | 600 |
| • Text fields | Yes |
| I/O fields | Yes |

| - Oranhia 1/0 fields (graphics list) | Vee |
|---|-----------------------|
| Graphic I/O fields (graphics list) | Yes |
| • Symbolic I/O fields (text list) | Yes |
| Date/time fields | Yes |
| • Switches | Yes |
| • Buttons | Yes |
| Graphic display | Yes |
| • Icons | Yes |
| Geometric objects | Yes |
| Complex image objects | |
| Number of complex objects per screen | 40 |
| Alarm view | Yes |
| Trend view | Yes |
| User view | Yes |
| Status/control | Yes |
| Sm@rtClient view | Yes |
| Recipe view | Yes |
| • f(x) trend view | Yes |
| System diagnostics view | Yes |
| Media Player | Yes |
| HTML browser | Yes |
| PDF display | Yes |
| • IP camera display | Yes |
| Bar graphs | Yes |
| • Sliders | Yes |
| Pointer instruments | Yes |
| Analog/digital clock | Yes |
| Lists | |
| Number of text lists per project | 500 |
| Number of entries per text list | 500 |
| Number of graphics lists per project | 500 |
| Number of entries per graphics list | 500 |
| Archiving | 500 |
| Number of archives per device | 50 |
| Number of entries per archive | 50 000 |
| Message archive | Yes |
| Process value archive | Yes |
| | 165 |
| Archiving methods | Vee |
| — Sequential archive | Yes |
| — Short-term archive | Yes |
| Memory location | N |
| — Memory card | Yes |
| — USB memory | Yes |
| — Ethernet | Yes |
| Data storage format | |
| — CSV | Yes |
| — TXT | Yes |
| — RDB | Yes |
| Security | |
| Number of user groups | 50 |
| Number of user rights | 32 |
| Number of users | 50 |
| Password export/import | Yes |
| SIMATIC Logon | Yes |
| Logging through printer | |
| • Alarms | Yes |
| Report (shift log) | Yes |
| | |
| Hardcopy | Yes |
| HardcopyElectronic print to file | |
| Electronic print to file | Yes Yes; PDF, HTML |
| | |

| — US English | Yes |
|---|--|
| Transfer (upload/download) | |
| MPI/PROFIBUS DP | Yes |
| • USB | Yes |
| • Ethernet | Yes |
| using external storage medium | Yes |
| Process coupling | |
| • S7-1200 | Yes |
| • S7-1500 | Yes |
| • S7-200 | Yes |
| • S7-300/400 | Yes |
| • LOGO! | Yes |
| WinAC | Yes |
| • SINUMERIK | Yes; With SINUMERIK option package as from WinCC V15 or higher |
| SIMOTION | Yes |
| Allen Bradley (EtherNet/IP) | Yes |
| Allen Bradley (DF1) | Yes |
| Mitsubishi (MC TCP/IP) | Yes |
| Mitsubishi (FX) | Yes |
| OMRON (FINS TCP) | No |
| OMRON (LINK/Multilink) | Yes |
| Modicon (Modbus TCP/IP) | Yes |
| Modicon (Modbus) | Yes |
| OPC UA Client | Yes |
| OPC UA Server | Yes |
| Service tools/configuration aids | |
| Backup/Restore manually | Yes |
| Backup/Restore automatically | Yes |
| Simulation | Yes |
| Device switchover | Yes |
| Peripherals/Options | |
| Printer | Yes |
| SIMATIC HMI MM memory card: Multi Media Card | Yes; Up to 128 MB |
| SIMATIC HMI SD memory card: Secure Digital memory card | Yes; Up to 2 GB |
| SIMATIC HMI CF memory card Compact Flash Card | No |
| USB memory | Yes |
| SIMATIC IPC USB Flashdrive (USB stick) | Yes; Up to 16 GB |
| SIMATIC HMI USB stick | Yes; Up to 8 GB |
| Network camera | Yes |
| Mechanics/material | |
| Enclosure material (front) | |
| • Plastic | No |
| Aluminum | Yes |
| Stainless steel | No |
| Dimensions | |
| Width of the housing front | 527 mm |
| Height of housing front | 330 mm; Without basic adapter |
| Overall depth | 101 mm; Without basic adapter |
| Weights | |
| Weight (without packaging) | 8.5 kg |
| | |
| last modified: | 3/2/2021 🖸 |