## SIEMENS

## Data sheet

## 6ES7541-1AB00-0AB0



SIMATIC S7-1500, CM PTP RS422/485 HF Communication module for Serial connection RS422 and RS485, Freeport, 3964 (R), USS, MODBUS RTU Master, Slave, 115200 Kbit/s, 15-Pin D-sub socket

Figure similar

General information	
Product type designation	CM PtP RS 422 / 485 HF
Product function	
• I&M data	Yes; I&M 0
Fast startup	Yes
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V12 / V12
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP2 with GSD file
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	- / -
<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	V2.3 / -
Installation type/mounting	
Rail mounting	Yes; S7-1500 mounting rail
Supply voltage	
Design of the power supply	system power supply
Input current	
Current consumption (rated value)	43 mA; From the backplane bus
Power	
Power available from the backplane bus	0.65 W
Power loss	
Power loss, typ.	0.6 W
Address area	
Address space per module	
Inputs	8 byte
Interface types	
RS 485	
<ul> <li>Transmission rate, max.</li> </ul>	115.2 kbit/s
Cable length, max.	1 200 m
RS 422	
<ul> <li>Transmission rate, max.</li> </ul>	115.2 kbit/s
Cable length, max.	1 200 m
<ul> <li>4-wire full duplex connection</li> </ul>	Yes
4-wire multipoint connection	No
Protocols	
Integrated protocols	
Freeport	
— Telegram length, max.	4 kbyte
— Bits per character	7 or 8

Parity     None, even, odd, always 1, always 0, any       3964 (R)     -       Bits per character     7 or 8       Number of stop bits     7 or 7 bit       Number of stop bits     7 or 7 bit       Number of stop bits     7 or 7 bit       Address area     1 to 27 bit       Address area     1 to 247, extended 1 to 65535       Number of staves, max.     32       MODBUS RTU slave     -       Address area     1 to 247, extended 1 to 65535       Telegram buffer     -       Address area     1 to 247, extended 1 to 65535       Telegram buffer     -       Address area     1 to 247, extended 1 to 65535       Interruptat/diagnostics/status information     Yes       Buffer memory for telegrams     8 kbyte       Number of staves, max.     8 kbyte       Buffer memory for telegrams     9 kbyte       Buffer memory for telegrams     9 kbyte       Buffer memory for telegrams     Yes       Diagnostic alarm     Yes       Buffer memory for telegrams     Yes       Buffer memory for telegrams     Yes       Backeter RxD     Yes       Backeter RxD     Yes: Yellow LED       Farcent TxD     Yes: Yellow LED       - Farcent RxD	- Number of stop bits	1 or 2 bit
3964 (R)     4 kbyle       - Telegram length, max.     4 kbyle       - Bils per character     7 or 8       - Number of stop bits     1 or 2 bit       - Parity     None, even, odd, always 1, always 0, any       Modbus RTU master     -       - Address area     1 to 247, extended 1 to 65535       - Wumber of staves, max.     32       MODBUS RTU silve     -       - Address area     1 to 247, extended 1 to 65535       Telegram buffer     8 kbyle       - Number of steparms which can be buffered     255       Interrupticit@gnostics/status information     255       Diagnostics function     Yes       Atarmis     •       • Diagnostics indication LED     Yes       • RUN LED     Yes; green LED       • REROR LED     Yes; Yes       • REROR LED     Yes; Yes (Very LED)       • Diagnostics indication LED     Yes; Yes (Very LED)       • Receive RAD     Yes; Yes (Very LED)       • Receive RAD     Yes; Yes (Very LED)       • Ambient conditions     0 °C       Ambient condition     0 °C       • vertical installation, min.     0 °C		
<ul> <li>— Telegram Inaph, max.</li> <li>4 byle</li> <li>— Bits per character</li> <li>7 or 8</li> <li>— Number of stop bits</li> <li>1 or 2 bit</li> <li>— Parity</li> <li>None, even, odd, always 1, always 0, any</li> <li>Mobus RTU inaxier</li> <li>— Address area</li> <li>1 b 247, extended 1 to 65535</li> <li>— Audress area</li> <li>1 b 247, extended 1 to 65535</li> <li>— Address area</li> <li>1 b 247, extended 1 to 65535</li> <li>— Address area</li> <li>1 b 247, extended 1 to 65535</li> <li>— Telegram buffer</li> <li>— Address area</li> <li>1 b 247, extended 1 to 65535</li> <li>— Telegram buffer</li> <li>— Address area</li> <li>1 b 247, extended 1 to 65535</li> <li>— Telegram buffer</li> <li>— Address area</li> <li>1 b 247, extended 1 to 65535</li> <li>— Telegram buffer</li> <li>— Address area</li> <li>1 b 247, extended 1 to 65535</li> <li>— Telegram buffer</li> <li>— Address area</li> <li>Diagnostic function</li> <li>Yes</li> <li>Number of telegrams which can be buffered</li> <li>255</li> <li>Diagnostic function</li> <li>Yes</li> <li>Number of telegram buffer</li> <li>— Number of telegrams which can be buffered</li> <li>Yes</li> <li>Number of telegram buffer</li> <li>— Diagnostic function</li> <li>Yes</li> <li>Number of telegram buffer</li> <li>Potential separation</li> <li>Yes</li> <li>Yes (rel LED</li> <li>Yes (rel LED</li> <li>Yes (relow LED</li> <li>Yes (Yellow LED</li> <li>Yes</li></ul>		None, even, ouu, aiways 1, aiways 0, any
— Bis per character     7 or 8       — Number of stop bis     1 or 2 bit       — Parity     None, even, odd, always 1, always 0, any       Modbus RTU master     1 to 247, extended 1 to 65535       — Number of staves, max.     32       MODBUS RTU slave     32       — Address area     1 to 247, extended 1 to 65535       — Number of telegrams.     8 kbyte       > Buffer memory for telegrams.     8 kbyte       > Diagnostic sfuction     Yes       Alarms        D Diagnostic sfunction     Yes       Alarms        D Diagnostic sfunction     Yes       Alarms        Diagnostic sfunction     Yes       Poscost     Yes       Poscost     Yes       Diagnostic sindication LED     Yes: rel LED       • Wire break     Yes       Poscost RxD     Yes: Yellow LED       • RIN LED     Yes: rel LED       • Robat conditions        Ambint conditions     Yes       Anbint conditions     Yes       Anbint conditions     Source       • vertical installation, min.     0 *C       • vertical installation, max.     60 *C       • vertical installation, max.     60 *C       • vertical installation, max.     60 *C		1 khute
Number of stop bits     1 or 2 bit       Parity     None, even, odd, always 1, always 0, any       Modbus RTU master     1 to 247, extended 1 to 65535       Number of slaves, max.     32       MODBUS RTU slave        Address area     1 to 247, extended 1 to 65535       Telegram buffer     8 kbyte       • Buffer memory for telegrams     8 kbyte       • Buffer of telegrams which can be buffered     255       Interrupts/diagnostics/status information     Yes       Diagnostics function     Yes       • Diagnostics function     Yes       • Diagnostics indication LED     Yes       • Wire-break     Yes       Diagnostics indication LED     Yes; red LED       • RUN LED     Yes; red LED       • REROR LED     Yes; red LED       • Receive RAD     Yes; Yellow LED       • Deternial separation     Yes       between backplane bus and interface     Yes       Isolation     10 °C       isolation     0 °C       • ontical installation, min.     0 °C       • ontical installation, min.     0 °C       • ontical installation, min.     0 °C       • ontical installation, max.     60 °C       • vertical installation, min.     0 °C       • ontical installation, min.     0 °C<		
— Parity     None, even, odd, always 1, always 0, any       Modbus RTU inaster     1 to 247, extended 1 to 65535       — Number of slaves, max.     32       MOBUS RTU slave		
Modbus RTU master         - Address area       1 to 247, extended 1 to 65535         - Number of slaves, max.       32         MODBUS RTU slave       1 to 247, extended 1 to 65535         Telegram buffer       8 kbyte         • Buffer memory for telegrams       8 kbyte         • Number of slaves max.       32         Interrupts/diagnostics/status information       255         Interrupts/diagnostics/status information       Yes         Alarms       •         • Diagnostic slave       Yes         • Mire-break       Yes         • RUN LED       Yes; green LED         • RUN LED       Yes; yellow LED         • Rocelve RxD       Yes; Yellow LED         • Rocelve RxD       Yes; Yellow LED         • Transmit TxD       Yes         Jabiation tested with       707 V DC (type test)         Anbient conditions       0 "C         Anbient condition       0 "C         • Norizontal installation, min.       0 "C         • Norizontal installation, min.       0 "C         • Norizontal installation, min.       0 "C         • Vertical installation, min.       0 "C         • Norizontal installation, min.       0 "C         • Norizontal installation, min. <td></td> <td></td>		
- Address area     1 to 247, extended 1 to 65535       - Number of lakves, max.     32       MODEUS RTU slave     32       - Address area     1 to 247, extended 1 to 65535       Telegram buffer     8 kbyte       • Buffer memory for telegrams     8 kbyte       • Buffer memory for telegrams     8 kbyte       • Bufgrostic slatus information     255       Interrupt4/diagnostics/slatus information     Ves       Alarns     0 biggnostic alarm       • Bufgrostic alarm     Yes       • Hardware interrupt     No       Diagnostic sindication LED     Yes       • RUN LED     Yes; green LED       • RUN LED     Yes; red LED       • RERNCI LED     Yes; red LED       • Receive RxD     Yes       Debetwen backplane bus and interface     Yes       betwen backplane bus and interface     Yes       Isolation tested with     707 V DC (type test)       Ambient temperature during operation     0°C       • vertical installation, min.     0°C       • vertical installation, max.     60 °C       • vertical installation, max.     60 °C       • vertical installation, real, max.     60 °C       • vertical installation, max.     60 °C       • vertical installation, max.     60 °C       • lastalation arelitin		None, even, oud, always 1, always 0, any
Number of slaves, max.     32       MODBUS RTU slave     1 to 247, extended 1 to 65535       Telegram buffer     8 kbyte       • Buffer memory for telegrams     8 kbyte       • Number of telegrams which can be buffered     255       Interrupts/diagnostice/status information     Yes       Ølagnostics function     Yes       • Hardware interrupt     No       Diagnostics indication LED     Yes       • KUN LED     Yes: green LED       • RUN LED     Yes: Yes       • RUN LED     Yes: Yes Wite DED       • REROR LED     Yes: Yes Wite DED       • Review RAD     Yes; Yellow LED       • Stabilion tested with     707 V DC (type test)       Ambient conditions     Anbient conditions       Anbient condition     0 °C       • orizontal installation, min.     0 °C       • orizontal installation, min.     0 °C       • orizontal installation, min.     0 °C       • orizontal installation, max.     40 °C       Altitude during operation     5000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual       Decentralized operation     Yes       • Installation altitude above sea level, max.     5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual       Decentralized operation     Yes       • Install		4 to 247, extended 4 to CEE2E
MODBUS RTU slave         — Address area       1 to 247, extended 1 to 65535         Telegram buffer       8 kbyte         • Buffer memory for telegrams which can be buffered       255         Interruptif-diagnostics/status information       Yes         Diagnostic alarm       Yes         • Hardware interrupt       No         Diagnostic alarm       Yes         • Wire-break       Yes         Diagnostic indication LED       Yes; green LED         • RROR LED       Yes; Yellow LED         • RROR LED       Yes; Yellow LED         • Receive RxD       Yes; Yellow LED         • Transmit TxD       Yes         Solation       Isolation tested with         Anbient conditions       0 °C         • vertical installation, min.       0 °C         • vertical installation, min.       0 °C         • vertical installation, max.       60 °C         • vertical installation, min.       0 °C         • torizontal installation, min.       0 °C         • torist		
Address area     1 to 247, extended 1 to 65535       Telegram buffer     8 kbyte       • Buffer memory for telegrams     8 kbyte       • Number of telegrams which can be buffered     255       Interrupts/diagnostic/sitatus information     Yes       Olagnostic sitancian     Yes       • Name     Yes       Alarms     Yes       • Nanchesis indication LED     Yes       • RUN LED     Yes; green LED       • RUN LED     Yes; red LED       • REROR LED     Yes; Yellow LED       • Receive RxD     Yes; Yellow LED       • Transmit TxD     Yes; Yellow LED       Potential separation     Edition       between backplane bus and interface     Yes       Isolation tested with     707 V DC (type test)       Ambient conditions     0 °C       • orizontal installation, min.     0 °C       • orizontal installation, max.     60 °C       • entraliation altitude above sea level, max.     5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual       Decentralized operation     Yes       • Installation altitude above sea level, max.     5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual       Decentralized operation     Yes       • Installation altitude above sea level, max.     5 000 m; restrictions for installation		32
Telegram buffer         • Buffer memory for telegrams which can be buffered         • Number of telegrams which can be buffered         255         Interrupts/diagnostics/status information         Diagnostic alarm       Yes         • Alarms         • Diagnostic situation       Yes         • Alarms       Yes         • Hardware interrupt       No         Diagnostics indication LED       Yes         • Wire-break       Yes         • RRN LED       Yes; red LED         • RRN LED       Yes; red LED         • RRN LED       Yes; Yellow LED         • Transmit XD       Yes; Yellow LED         Potential separation       Estead with         Detwen backplane bus and interface       Yes         Isolation       Isolation         Isolation tested with       707 V DC (type test)         Ambient conditions       Ambient conditions         Anbient temperature during operation       0 °C         • Ionizontal installation, min.       0 °C		
• Buffer memory for telegrams     8 kbyte       • Number of telegrams which can be buffered     255       Interrupts/diagnostics/status information     Yes       Alarms     • Diagnostics function     Yes       Alarms     • No       Diagnostic alarm     Yes       • Alardware interrupt     No       Diagnostics indication LED     Yes       • RUN LED     Yes; green LED       • RROR LED     Yes; red LED       • Receive RxD     Yes; red LED       • Receive RxD     Yes; Yellow LED       • Transmit TxD     Yes; Yellow LED       Potential separation     Debewen backplane bus and interface       between backplane bus and interface     Yes       Isolation     1       • Isolation statalation, min.     0 °C       • Installation, min.     0 °C       • Vertical installation, max.     60 °C       • vertical installation, max.     60 °C       • vertical installation, max.     40 °C       Altitude during operation     Yes       • Issallation altitude sove sea level, max.     5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual       Decentralized operation     Yes       to SIMATIC S7-300     Yes       to SIMATIC S7-100     Yes       to SIMATIC S7-100     Yes		1 to 247, extended 1 to 65535
Number of telegrams which can be buffered         255           Interrupts/diagnostics/status information         Yes           Aarms         Yes                Aarms             • Diagnostic alarm             • Hardware interrupt             No         No           Diagnostic sindication LED             • Vire-break             • RUN LED             • RUN LED             • RUN LED             • REROR LED             • Receive RxD             • Fransmit TxD             Yes (Yeilow LED             • Fransmit TxD             Yes (Yeilow LED             • Fransmit TxD             Yes (Yeilow LED             • Transmit TxD             Yes (Yeilow LED             • Transmit TxD             Yes (Yeilow LED             • Torizontal installation, max.             • Of "C             • Forizontal installation, min.             • O"C             • forizontal installation, max.             • O"C             • Vertical installation, max.             • O"C             • Installation altitude above sea level             * Installation altitu		
Interrupts/diagnostics/status information           Diagnostic function         Yes           Alarms         •           • Diagnostic alarm         Yes           • Hardware interrupt         No           Diagnostic status         Yes           • Wire-break         Yes           Diagnostic indication LED         Yes; green LED           • RRN LED         Yes; green LED           • ERCR ND         Yes; Yellow LED           • Transmit TxD         Yes; Yellow LED           Potential separation         Esclation           Isolation tested with         707 V DC (type test)           Ambient conditions         Ambient conditions           Ambient conditions         0 °C           • vertical installation, min.         0 °C           • vertical installation, min.         0 °C           • vertical installation, min.         0 °C           • vertical installation, max.         40 °C           Attude during operation relating to sea level         • Installation altitudes > 2 000 m, see ET 200MP system manual           Decentralized operation         Yes           to SIMATIC S7-300         Yes           to SIMATIC S7-400         Yes           to standard PROFINET controller         Yes		
Diagnostics function     Yes       Alarms     •       • Diagnostic alarm     Yes       • Hardware interrupt     No       Diagnoses     •       • Wire-break     Yes       Diagnostic indication LED     Yes; green LED       • RUN LED     Yes; red LED       • Receive RXD     Yes; Yellow LED       • Transmit TxD     Yes; Yellow LED       Potential separation     •       between backplane bus and interface     Yes       Isolation     •       Isolation     •       Isolation tested with     707 V DC (type test)       Ambient conditions     •       Andient installation, min.     0 °C       • horizontal installation, max.     60 °C       • vertical installation, min.     0 °C       • lotid installation, min.     0 °C       • lotid installation, min.     0 °C       • vertical installation, max.     40 °C       Altitude dung operation     •       • lostalina altitude above sea level     •       • lostallation altitude above sea level, max.     5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual       Decentralized operation     •       to SIMATIC S7-300     Yes       to standard PROFINET controller     Yes       to stand	-	255
Alarms <ul> <li>Diagnostic alarm</li> <li>Yes</li> <li>No</li> <li>Diagnoses</li> <li>Wire-break</li> <li>Yes</li> <li>Diagnostic aidcation LED</li> <li>RUN LED</li> <li>Yes; red LED</li> <li>RROR LED</li> <li>Yes; red LED</li> <li>Yes; Yellow LED</li> <li>Transmit TxD</li> <li>Yes; Yellow LED</li> <li>Transmit TxD</li> <li>Yes; Yellow LED</li> <li>Transmit TxD</li> <li>Yes; Yellow LED</li> <li>Potential separation</li> <li>between backplane bus and interface</li> <li>Yes</li> <li>Isolation</li> <li>Isolation</li> <li>Isolation tested with</li> <li>707 V DC (type test)</li> <li>Ambient temperature during operation</li> <li>horizontal installation, max.</li> <li>60 °C</li> <li>vertical installation, max.</li> <li>60 °C</li> <li>vertical installation, max.</li> <li>90 °C</li> <li>Altitude during operation realizing to sea level</li> <li>installation altitude so sea level max.</li> <li>so too m; restrictions for installation altitudes &gt; 2 000 m, see ET 200MP system manual</li> <li>Decentralized operation</li> <li>to SIMATIC S7-300</li> <li>Yes</li> <li>to SIMATIC S7-1500</li> <li>Yes</li> <li>to standard PROFINET controller</li> <li>Yes</li> <li>Dimensions</li> <li>Widh</li> <li>35 mm</li> <li>Height</li> <li>147 mm</li> <li>Depth</li> <li>127 mm</li> <li>Weights</li> <li>Italian</li> <li>Yes</li>         &lt;</ul>	Interrupts/diagnostics/status information	
• Diagnostic alarm     Yes       • Hardware interrupt     No       Diagnoses     •       • Wire-break     Yes       Diagnostics indication LED     Yes; green LED       • RUN LED     Yes; red LED       • REROR LED     Yes; Yellow LED       • Ramsmit TxD     Yes; Yellow LED       Potential separation     Esteve RXD       between backplane bus and interface     Yes       Isolation tested with     707 V DC (type test)       Ambient conditions     Ambient conditions       Ambient temperature during operation     0 °C       • horizontal installation, min.     0 °C       • vertical installation, max.     60 °C       • vertical installation, max.     0 °C       • Installation attitude above sea level, max.     5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual       Decentralized operation     Yes       to SIMATIC S7-300     Yes       to SIMATIC S7-1500     Yes       to standard PROFINET controller     Yes       Dimensions     Yes       Width     35 mm       Height     147 mm       Depth     127 mn	Diagnostics function	Yes
Hardware interrupt     No       Diagnoses     Ves       ● Wire-break     Yes       Diagnostics indication LED     Ves; green LED       • RUN LED     Yes; red LED       • Receive RxD     Yes; Yellow LED       • Transmit TxD     Yes; Yellow LED       Potential separation     Edition       between backplane bus and interface     Yes       Isolation     707 V DC (type test)       Ambient conditions     707 V DC (type test)       Ambient conditions     60 °C       • horizontal installation, min.     0 °C       • vertical installation, min.     0 °C       • system manual     5000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual       Decentralized operation     Yes       to SIMATIC S7-300     Yes       to SIMATIC S7-400     Yes       to SIMATIC S7-1500     Yes       to standard PROFINET controller     Yes       Dimensions     Yes	Alarms	
Diagnoses       • Wire-break     Yes       Diagnostics indication LED     Yes; green LED       • RUN LED     Yes; green LED       • ERROR LED     Yes; Yellow LED       • Receive RxD     Yes; Yellow LED       • Transmit TxD     Yes; Yellow LED       Potential separation        between backplane bus and interface     Yes       Isolation        Isolation tested with     707 V DC (type test)       Ambient conditions        Ambient temperature during operation     0 °C       • horizontal installation, max.     60 °C       • vertical installation, max.     40 °C       Altitude during operation     5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual       Decentralized operation     Yes       to SIMATIC S7-300     Yes       to SIMATIC S7-400     Yes       to SIMATIC S7-400     Yes       to SIMATIC S7-1500     Yes       to standard PROFINET controller     Yes       Dimensions     147 mm       Widh     35 mm       Height     147 mm       Depth     127 mm	<ul> <li>Diagnostic alarm</li> </ul>	Yes
• Wire-break         Yes           Diagnostics indication LED         •           • RUN LED         Yes; green LED           • ERROR LED         Yes; Yellow LED           • Receive RxD         Yes; Yellow LED           • Transmit TxD         Yes; Yellow LED           Potential separation	Hardware interrupt	No
Diagnostics indication LED       Yes; green LED         • RUN LED       Yes; red LED         • ERROR LED       Yes; red LED         • Receive RxD       Yes; Yellow LED         • Transmit TxD       Yes; Yellow LED         Potential separation       Edited to the set of	Diagnoses	
• RUN LED       Yes; green LED         • ERROR LED       Yes; red LED         • Receive RxD       Yes; Yellow LED         • Transmit TxD       Yes; Yellow LED         Potential separation	Wire-break	Yes
• ERROR LED       Yes; red LED         • Receive RxD       Yes; Yellow LED         • Transmit TxD       Yes; Yellow LED         Potential separation	Diagnostics indication LED	
Receive RxD Yes; Yellow LED     Transmit TxD Yes; Yellow LED  Potential separation  between backplane bus and interface Yes  solation	RUN LED	Yes; green LED
• Transmit TxD       Yes; Yellow LED         Potential separation       Feasure 1         between backplane bus and interface       Yes         Isolation       Isolation tested with         Ambient conditions       707 V DC (type test)         Ambient temperature during operation       • horizontal installation, min.         • horizontal installation, max.       60 °C         • vertical installation, max.       60 °C         • vertical installation, max.       60 °C         • vertical installation, max.       40 °C         Attitude during operation relating to sea level       5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual         Decentralized operation       Yes         to SIMATIC S7-300       Yes         to SIMATIC S7-1500       Yes         to SIMATIC S7-1500       Yes         to standard PROFINET controller       Yes         Dimensions       147 mm         Width       35 mm         Height       147 mm         Depth       127 mm	ERROR LED	Yes; red LED
Potential separation           between backplane bus and interface         Yes           Isolation         Isolation tested with         707 V DC (type test)           Ambient conditions         Ambient temperature during operation <ul> <li>horizontal installation, min.</li> <li>0 °C</li> <li>horizontal installation, max.</li> <li>40 °C</li> </ul> Attitude during operation relating to sea level <li>vertical installation, max.</li>	Receive RxD	Yes; Yellow LED
between backplane bus and interface         Yes           Isolation         Isolation           Isolation tested with         707 V DC (type test)           Ambient conditions         Ambient temperature during operation                • horizontal installation, min.         0 °C                • horizontal installation, max.         60 °C                • vertical installation, max.         60 °C                • vertical installation, max.         40 °C           Altitude during operation relating to sea level         •                • Installation altitude above sea level, max.         5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual                Decentralized operation             to SIMATIC S7-300             to SIMATIC S7-400             Yes             to SIMATIC S7-1500             Yes             to standard PROFINET controller             Yes             to standard PROFINET controller             Yes             Yes	Transmit TxD	Yes; Yellow LED
Isolation       707 V DC (type test)         Ambient conditions       0 °C         Ambient temperature during operation       0 °C <ul> <li>horizontal installation, min.</li> <li>0 °C</li> <li>vertical installation, max.</li> <li>60 °C</li> <li>vertical installation, max.</li> <li>0 °C</li> </ul> <ul> <li>vertical installation, max.</li> <li>0 °C</li> <li>vertical installation, max.</li> <li>40 °C</li> </ul> Altitude during operation relating to sea level <ul> <li>Installation altitude above sea level</li> <li>Installation altitude above sea level, max.</li> <li>system manual</li> </ul> Decentralized operation <ul> <li>to SIMATIC S7-300</li> <li>Yes</li> <li>to SIMATIC S7-1500</li> <li>Yes</li> <li>to standard PROFINET controller</li> <li>Yes</li> <li>Dimensions</li> <li>Width</li> <li>35 mm</li> <li>Height</li> <li>147 mm</li> <li>Depth</li> <li>127 mm</li> </ul>	Potential separation	
Isolation         Isolation tested with       707 V DC (type test)         Ambient conditions         Ambient temperature during operation         • horizontal installation, min.       0 °C         • horizontal installation, max.       60 °C         • vertical installation, max.       40 °C         Altitude during operation relating to sea level       0 °C         • Installation altitude above sea level, max.       5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual         Decentralized operation       Yes         to SIMATIC S7-300       Yes         to SIMATIC S7-1500       Yes         to SIMATIC S7-1500       Yes         to SIMATIC S7-1500       Yes         to SIMATIC S7-1500       Yes         Usidard PROFINET controller       Yes         Dimensions       147 mm         Depth       127 mm         Weights       127 mm	between backplane bus and interface	Yes
Ambient conditions         Ambient temperature during operation <ul> <li>horizontal installation, min.</li> <li>0 °C</li> <li>horizontal installation, max.</li> <li>60 °C</li> <li>vertical installation, min.</li> <li>0 °C</li> </ul> vertical installation, min.         0 °C                vertical installation, max.             d0 °C                vertical installation attitude above sea level             vertical operation relating to sea level             vertical installation altitude above sea level, max.                vester manual                 Decentralized operation             ves             to SIMATIC S7-300             Ves             to SIMATIC S7-1500             Ves             to standard PROFINET controller             Ves             to standard PROFINET controller             Ves             Ves		
Ambient conditions         Ambient temperature during operation <ul> <li>horizontal installation, min.</li> <li>0 °C</li> <li>horizontal installation, max.</li> <li>60 °C</li> <li>vertical installation, min.</li> <li>0 °C</li> </ul> vertical installation, min.         0 °C                vertical installation, max.             d0 °C                vertical installation attitude above sea level             vertical operation relating to sea level             vertical installation altitude above sea level, max.                vester manual                 Decentralized operation             ves             to SIMATIC S7-300             Ves             to SIMATIC S7-1500             Ves             to standard PROFINET controller             Ves             to standard PROFINET controller             Ves             Ves	Isolation tested with	707 V DC (type test)
Ambient temperature during operation       0 °C <ul> <li>horizontal installation, min.</li> <li>0 °C</li> <li>vertical installation, max.</li> <li>60 °C</li> <li>vertical installation, min.</li> <li>0 °C</li> </ul> <ul> <li>vertical installation, max.</li> <li>40 °C</li> </ul> Altitude during operation relating to sea level <ul> <li>Installation altitude above sea level, max.</li> <li>5 000 m; restrictions for installation altitudes &gt; 2 000 m, see ET 200MP system manual</li> </ul> <ul> <li>Decentralized operation</li> <li>to SIMATIC S7-300</li> <li>Yes</li> <li>to SIMATIC S7-1500</li> <li>Yes</li> <li>to standard PROFINET controller</li> <li>Yes</li> </ul> <ul> <li>Midth</li> <li>Height</li> <li>Depth</li> <li>127 mm</li> </ul>		
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation relating to sea level</li> <li>Installation altitude above sea level, max.</li> <li>source sea level, max.</li> <li>sou</li></ul>		
• horizontal installation, max.       60 °C         • vertical installation, min.       0 °C         • vertical installation, max.       40 °C         Attitude during operation relating to sea level       5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual         Decentralized operation       5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual         Decentralized operation       5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual         Decentralized operation       Yes         to SIMATIC S7-300       Yes         to SIMATIC S7-400       Yes         to SIMATIC S7-1500       Yes         to standard PROFINET controller       Yes         Dimensions       35 mm         Height       147 mm         Depth       127 mm         Weights       127 mm		0 °C
<ul> <li>vertical installation, min.</li> <li>vertical installation, max.</li> <li>40 °C</li> <li>Altitude during operation relating to sea level</li> <li>Installation altitude above sea level, max.</li> <li>5 000 m; restrictions for installation altitudes &gt; 2 000 m, see ET 200MP system manual</li> <li>Decentralized operation</li> <li>to SIMATIC S7-300</li> <li>Yes</li> <li>to SIMATIC S7-400</li> <li>Yes</li> <li>to SIMATIC S7-1500</li> <li>Yes</li> <li>to standard PROFINET controller</li> <li>Yes</li> <li>Dimensions</li> <li>Width</li> <li>35 mm</li> <li>Height</li> <li>147 mm</li> <li>Depth</li> <li>127 mm</li> <li>Weights</li> </ul>		
• vertical installation, max.       40 °C         Altitude during operation relating to sea level       5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual         • Installation altitude above sea level, max.       5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual         • Decentralized operation       ves         to SIMATIC S7-300       Yes         to SIMATIC S7-400       Yes         to SIMATIC S7-1500       Yes         to standard PROFINET controller       Yes         Dimensions       35 mm         Width       35 mm         Height       147 mm         Depth       127 mm         Weights       127 mm		
Altitude during operation relating to sea level       •         • Installation altitude above sea level, max.       5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual         Decentralized operation       to SIMATIC S7-300         to SIMATIC S7-300       Yes         to SIMATIC S7-400       Yes         to SIMATIC S7-1500       Yes         to standard PROFINET controller       Yes         Dimensions       35 mm         Width       35 mm         Height       147 mm         Depth       127 mm		
• Installation altitude above sea level, max.       5 000 m; restrictions for installation altitudes > 2 000 m, see ET 200MP system manual         Decentralized operation		40 C
system manualDecentralized operationto SIMATIC S7-300Yesto SIMATIC S7-400Yesto SIMATIC S7-1500Yesto standard PROFINET controllerYesDimensionsWidth35 mmHeight147 mmDepth127 mmWeights		5 000 mi rostrictions for installation altitudes > 2 000 m. aco ET 200MD
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to SIMATIC S7-1500Yesto standard PROFINET controllerYesDimensionsWidth35 mmHeight147 mmDepth127 mmWeights		
to standard PROFINET controller     Yes       Dimensions     35 mm       Width     35 mm       Height     147 mm       Depth     127 mm       Weights     127 mm		
Dimensions       Width     35 mm       Height     147 mm       Depth     127 mm       Weights     127 mm		
Width     35 mm       Height     147 mm       Depth     127 mm       Weights     127 mm		102
Height     147 mm       Depth     127 mm       Weights     127 mm		
Depth 127 mm Weights		
Weights		
	-	127 mm
Weight approx		
	Weight, approx.	0.22 kg
last modified: 11/3/2021 C	last modified:	11/2/2021
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