SIEMENS

Data sheet

6ES7137-6AA01-2BA0



SIMATIC ET 200SP, CM PTP communication module for serial connection RS-422, RS-485 and RS-232, freeport, 3964 (R), USS, MODBUS RTU master, slave, max. 250 Kbit/s, suitable for BU type A0, pack quantity: 10 units

Figure similar

| Product type designation Product type designation Firmware version Fyes Insultate possible in Italy Firmware version Fyes Insultate possible range, lower limit (DC) Firmware version Firmware version Fyes Insultate possible range, lower limit (DC) Fyes Input current Current consumption (rated value) Current consumption (rated value) Current consumption, max. Fower loss Fower loss, typ. Fyes Formware version CM PtP Fyes Firmware version Fyes Firmware version Fyes Firmware version CM PtP Fyes Firmware version Fyes Firmware version CM PtP Fyes Firmware version CM PtP Fyes Firmware version Fyes Firmware version Fyes Firmware version Fyes Firmware version CM PtP Fyes Firmware version Fyes Firmware versi | r igure siinna | |
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| STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision GSD as of Revision 5 Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Peverse polarity protection Profit (DC) Profit | Engineering with | |
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| ● PROFINET from GSD version/GSD revision Supply voltage Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Input current Current consumption (rated value) 31 mA Current consumption, max. 35 mA Power loss Power loss, typ. 0.7 W | STEP 7 configurable/integrated from version | via GSD as of V5.6 HF4 |
| Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption (rated value) Current consumption, max. Power loss Power loss, typ. 24 V 28 V 28.8 V 28.8 V 31 mA 31 mA 0.7 W | PROFIBUS from GSD version/GSD revision | GSD as of Revision 5 |
| Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Input current Current consumption (rated value) Current consumption, max. 35 mA Power loss Power loss, typ. 24 V 28 V 28 N 28 N 28 N 28 N 28 N 28 N 29 N 29 N 29 N 20 N | PROFINET from GSD version/GSD revision | GSDML V2.34 |
| permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption (rated value) Current consumption, max. 35 mA Power loss Power loss, typ. 19.2 V 28.8 V 31 mA 31 mA 0.7 W | Supply voltage | |
| permissible range, upper limit (DC) Reverse polarity protection Yes Input current Current consumption (rated value) Current consumption, max. 35 mA Power loss Power loss, typ. 0.7 W | Rated value (DC) | 24 V |
| Reverse polarity protection Input current Current consumption (rated value) Current consumption, max. 35 mA Power loss Power loss, typ. 0.7 W | permissible range, lower limit (DC) | 19.2 V |
| Input current Current consumption (rated value) 31 mA Current consumption, max. 35 mA Power loss Power loss, typ. 0.7 W | permissible range, upper limit (DC) | 28.8 V |
| Current consumption (rated value) Current consumption, max. 35 mA Power loss Power loss, typ. 0.7 W | Reverse polarity protection | Yes |
| Current consumption, max. 35 mA Power loss Power loss, typ. 0.7 W | Input current | |
| Power loss Power loss, typ. 0.7 W | Current consumption (rated value) | 31 mA |
| Power loss, typ. 0.7 W | Current consumption, max. | 35 mA |
| ·- | Power loss | |
| Address area | Power loss, typ. | 0.7 W |
| Address area | Address area | |
| Address space per module | Address space per module | |
| • Inputs 8 byte; performance mode: 32 byte | • Inputs | 8 byte; performance mode: 32 byte |
| • Outputs 0 byte; performance mode: 32 byte | Outputs | 0 byte; performance mode: 32 byte |
| 1. Interface | 1. Interface | |
| Interface types | Interface types | |
| • RS 485 Yes | • RS 485 | Yes |
| • RS 422 Yes | • RS 422 | Yes |
| • RS 232 Yes | • RS 232 | Yes |
| Design of the connection Push-in terminal | Design of the connection | Push-in terminal |
| Interface types | Interface types | |
| RS 232 | RS 232 | |
| • Transmission rate, max. 115.2 kbit/s | • Transmission rate, max. | 115.2 kbit/s |
| • Cable length, max. 15 m | Cable length, max. | 15 m |
| • RS 232 auxiliary signals RTS, CTS, DTR, DSR, RI, DCD | RS 232 auxiliary signals | RTS, CTS, DTR, DSR, RI, DCD |
| RS 485 | RS 485 | |
| • Transmission rate, max. 250 kbit/s | Transmission rate, max. | 250 kbit/s |

| a Cable length | 1 200 m; 100 to 1200 m, depending on transmission and |
|--|--|
| Cable length, max. PS 433 | 1 200 m; 100 to 1200 m, depending on transmission speed |
| RS 422 | 115.2 kbit/s |
| Transmission rate, max. Cable length, max. | 1 200 m |
| Cable length, max.4-wire full duplex connection | 1 200 m Yes |
| 4-wire full duplex connection 4-wire multipoint connection | Yes |
| Protocols | res |
| Integrated protocols | |
| Freeport | |
| — Telegram length, max. | 2 kbyte; performance mode: receive data max. 24 byte and send data max. 30 |
| - | byte |
| — Bits per character | 7 or 8 |
| Number of stop bits | 1 or 2 bit |
| — Parity | None, even, odd, always 1, always 0, any |
| 3964 (R) | O library and annual annual annual annual annual data annual annual data annua |
| — Telegram length, max. | 2 kbyte; performance mode: receive data max. 24 byte and send data max. 30 byte |
| — Bits 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 |
| — Number of slaves, max. | 32 |
| MODBUS RTU slave | |
| — Address area | 1 to 247, extended 1 to 65535 |
| Telegram buffer | |
| Buffer memory for telegrams | 4 kbyte |
| Number of telegrams which can be buffered | 255 |
| Interrupts/diagnostics/status information | |
| Diagnostics function | Yes |
| Alarms | V |
| Diagnostic alarm | Yes |
| Hardware interrupt | No |
| Diagnoses | Von |
| Wire-break Diagnostics indication LED | Yes |
| Diagnostics indication LED | Voc: groop DWP LED |
| Monitoring of the supply voltage (PWR-LED) for module diagnostics. | Yes; green PWR LED |
| for module diagnostics Reseive RVD | Yes; green/red DIAG LED |
| Receive RxD Transmit TxD | Yes; green LED |
| Potential separation | Yes; green LED |
| | Yes |
| between backplane bus and interface Isolation | 1 53 |
| Isolation tested with | 707 V DC (type test) |
| Ambient conditions | 101 V DO (typo test) |
| Ambient conditions Ambient temperature during operation | |
| horizontal installation, min. | -30 °C |
| horizontal installation, max. | -50 °C |
| vertical installation, min. | -30 °C |
| vertical installation, max. | 50 °C |
| Altitude during operation relating to sea level | |
| Installation altitude above sea level, max. | 5 000 m |
| Decentralized operation | |
| to SIMATIC S7-300 | Yes |
| to SIMATIC S7-400 | Yes |
| to SIMATIC S7-1200 | Yes |
| to SIMATIC S7-1500 | Yes |
| to standard PROFINET controller | Yes |
| Dimensions | |
| Width | 15 mm |
| Height | 73 mm |
| | |

| Depth | 58 mm |
|-----------------|-------|
| Weights | |
| Weight, approx. | 30 g |

last modified:

3/15/2021