




Figure similar

SIMATIC S7-1200, Communication module CM 1241, RS232, 9-pole D-sub (pin), supports Freepoint

| General information | |
|--|---|
| Product type designation | CM 1241 RS 232 |
| Supply voltage | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| Input current | |
| Current consumption, max. | 200 mA; From backplane bus 5 V DC |
| Power loss | |
| Power loss, typ. | 1.1 W |
| Interfaces | |
| Interfaces/bus type | RS 232C (V.24) |
| Number of interfaces | 1 |
| Point-to-point connection | |
| <ul style="list-style-type: none"> • Cable length, max. | 10 m |
| Integrated protocol driver | |
| — Freepoint | Yes |
| — ASCII | Yes; Available as library function |
| — Modbus RTU master | Yes |
| — MODBUS RTU slave | Yes |
| Protocols | |
| Integrated protocols | |
| Freepoint | |
| — Telegram length, max. | 1 kbyte |
| — Bits per character | 7 or 8 |
| — Number of stop bits | 1 (Standard), 2 |
| — Parity | No parity (standard); even, uneven, mark (parity bit always 1); space (parity bit always 0) |
| 3964 (R) | |
| — Telegram length, max. | 1 kbyte |
| — Bits per character | 7 or 8 |
| — Number of stop bits | 1 (Standard), 2 |
| — Parity | No parity (standard); even, uneven, mark (parity bit always 1); space (parity bit always 0) |
| Modbus RTU master | |
| — Address area | 1 through 49 999 (Standard Modbus addressing) |
| — Number of slaves, max. | 247; slave numbers 1 through 247, per MODBUS network segment maximum 32 devices, additional repeaters needed to expand the network to maximum configuration |
| MODBUS RTU slave | |

| | |
|--|---|
| — Address area | 1 through 49 999 (Standard Modbus addressing) |
| Interrupts/diagnostics/status information | |
| Diagnostics function | Yes |
| Diagnostics indication LED | |
| • for status of the outputs | Yes |
| Degree and class of protection | |
| IP degree of protection | IP20 |
| Standards, approvals, certificates | |
| CE mark | Yes |
| CSA approval | Yes |
| UL approval | Yes |
| cULus | Yes |
| FM approval | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| Marine approval | Yes |
| Ambient conditions | |
| Free fall | |
| • Fall height, max. | 0.3 m; five times, in product package |
| Ambient temperature during operation | |
| • min. | -20 °C |
| • max. | 60 °C |
| • horizontal installation, min. | -20 °C |
| • horizontal installation, max. | 60 °C |
| • vertical installation, min. | -20 °C |
| • vertical installation, max. | 50 °C |
| • permissible temperature change | 5°C to 55°C, 3°C / minute |
| Ambient temperature during storage/transportation | |
| • min. | -40 °C |
| • max. | 70 °C |
| Air pressure acc. to IEC 60068-2-13 | |
| • Operation, min. | 795 hPa |
| • Operation, max. | 1 080 hPa |
| • Storage/transport, min. | 660 hPa |
| • Storage/transport, max. | 1 080 hPa |
| Relative humidity | |
| • Operation at 25 °C without condensation, max. | 95 % |
| Dimensions | |
| Width | 30 mm |
| Height | 100 mm |
| Depth | 75 mm |
| Weights | |
| Weight, approx. | 150 g |
| last modified: | 2/26/2021  |