## Data sheet

SIPLUS S7-1200 CM1241 -40...+70 °C with conformal coating based on 6ES7241-1CH32-0XB0. Communication module CM 1241, RS422/485, 9-pole D-sub (pin) supports Freeport



General information		
Product type designation	CM 1241 RS 422 / 485	
Supply voltage		
Rated value (DC)		
• 24 V DC	Yes	
permissible range, lower limit (DC)	20.4 V	
permissible range, upper limit (DC)	28.8 V	
Power loss		
Power loss, typ.	1.2 W	
Interfaces		
Number of interfaces	1	
Interface (physical) RS 422/485 (X.27)	Yes	
Point-to-point connection		
Cable length, max.	1 000 m	
Integrated protocol driver		
— ASCII	Yes; Available as library function	
— USS	Yes; Available as library function	

Free fall		
• Fall height, max.	0.3 m; five times, in product package	
Ambient temperature during operation		
• min.	-40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C	
• max.	70 °C; Tmax > 60 °C, derating: Max. one module may be configured; this module must be the last module on the CM bus; minimum clearance on the left side of at least 45 mm	
Ambient temperature during storage/transportation		
• min.	-40 °C	
• max.	70 °C	
Altitude during operation relating to sea level		
Installation altitude above sea level, max.	5 000 m	
Ambient air temperature-barometric pressure- altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 50 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m + 000 m)	
Relative humidity		
<ul> <li>Operation at 25 °C without condensation, max.</li> </ul>	95 %	
<ul> <li>With condensation, tested in accordance with IEC 60068-2-38, max.</li> </ul>	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)	
Resistance		
Coolants and lubricants		
<ul> <li>Resistant to commercially available coolants and lubricants</li> </ul>	Yes; Incl. diesel and oil droplets in the air	
Use in stationary industrial systems		
<ul> <li>to biologically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	
<ul> <li>to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); $^{\star}$	
<ul> <li>to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *	
Use on ships/at sea		
<ul> <li>to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	
<ul> <li>to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	
<ul> <li>to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *	
Usage in industrial process technology		
<ul> <li>Against chemically active substances acc.</li> <li>to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)	

- Environmental conditions for process, Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 measuring and control systems acc. to permissible); level LC3 (salt spray) and level LB3 (oil) ANSI/ISA-71.04 Remark \* The supplied plug covers must remain in place over the unused - Note regarding classification of interfaces during operation! environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating Yes; Class 2 for high availability Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection Yes; Discoloration of coating possible during service life • Military testing according to MIL-I-46058C, Amendment 7 Yes; Conformal coating, Class A • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A **Dimensions** Width 30 mm Height 100 mm Depth 75 mm Weights

155 g

08/27/2019

Weight, approx.

last modified: