



Figure similar

SIPLUS S7-1500 sync submodule up to 10 km based on 6ES7960-1FB00-0AA5 with conformal coating, 0...+60 °C, for patch cables up to 10 km

| General information                                                 |                                                                                                    |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Product type designation                                            | Synchronization module                                                                             |
| based on                                                            | <a href="#">6ES7960-1FB00-0AA5</a>                                                                 |
| Engineering with                                                    |                                                                                                    |
| • STEP 7 TIA Portal configurable/integrated from version            | see entry ID: 109746275                                                                            |
| Power loss                                                          |                                                                                                    |
| Power loss, typ.                                                    | 0.83 W                                                                                             |
| Interfaces                                                          |                                                                                                    |
| Optical interface                                                   | Yes                                                                                                |
| • design of optical connection                                      | LC                                                                                                 |
| • wavelength of optical interface                                   | 1 310 nm                                                                                           |
| • range (depending on optical fiber used), min.                     | 2 m                                                                                                |
| • range (depending on optical fiber used), max.                     | 10 km                                                                                              |
| Ambient conditions                                                  |                                                                                                    |
| Ambient temperature during operation                                |                                                                                                    |
| • horizontal installation, min.                                     | 0 °C; = Tmin                                                                                       |
| • horizontal installation, max.                                     | 60 °C; = Tmax                                                                                      |
| • vertical installation, min.                                       | 0 °C; = Tmin                                                                                       |
| • vertical installation, max.                                       | 40 °C                                                                                              |
| Ambient temperature during storage/transportation                   |                                                                                                    |
| • min.                                                              | -40 °C                                                                                             |
| • max.                                                              | 70 °C                                                                                              |
| Altitude during operation relating to sea level                     |                                                                                                    |
| • Installation altitude above sea level, max.                       | 2 000 m                                                                                            |
| • Ambient air temperature-barometric pressure-altitude              | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m)                                     |
| Relative humidity                                                   |                                                                                                    |
| • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation  |
| Resistance                                                          |                                                                                                    |
| Coolants and lubricants                                             |                                                                                                    |
| — Resistant to commercially available coolants and lubricants       | Yes; Incl. diesel and oil droplets in the air                                                      |
| Use in stationary industrial systems                                |                                                                                                    |
| — to biologically active substances according to EN 60721-3-3       | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request |
| — to chemically active substances according to EN 60721-3-3         | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *           |
| — to mechanically active substances according to EN 60721-3-3       | Yes; Class 3S4 incl. sand, dust, *                                                                 |
| Use on ships/at sea                                                 |                                                                                                    |
| — to biologically active substances according to EN                 | Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)                                   |

|                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                |                                                                                              |                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------|
| 60721-3-6<br>— to chemically active substances according to EN 60721-3-6<br>— to mechanically active substances according to EN 60721-3-6                                                                                                                                                                                                                                  | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *<br>Yes; Class 6S3 incl. sand, dust; * |                                                                                              |                |
| Remark                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                |                                                                                              |                |
| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04                                                                                                                                                                                                                                                                |                                                                                                                                | * The supplied plug covers must remain in place over the unused interfaces during operation! |                |
| Conformal coating                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                |                                                                                              |                |
| <ul style="list-style-type: none"><li>• Coatings for printed circuit board assemblies acc. to EN 61086</li><li>• Protection against fouling acc. to EN 60664-3</li><li>• Military testing according to MIL-I-46058C, Amendment 7</li><li>• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</li></ul> |                                                                                                                                | Yes; Class 2 for high reliability                                                            |                |
|                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                | Yes; Type 1 protection                                                                       |                |
|                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                | Yes; Discoloration of coating possible during service life                                   |                |
|                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                | Yes; Conformal coating, Class A                                                              |                |
| Dimensions                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                |                                                                                              |                |
| Width                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                | 13 mm                                                                                        |                |
| Height                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                | 14 mm                                                                                        |                |
| Depth                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                | 58 mm                                                                                        |                |
| Weights                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                |                                                                                              |                |
| Weight, approx.                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                | 18 g                                                                                         |                |
| Classifications                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                |                                                                                              |                |
|                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                | Version                                                                                      | Classification |
|                                                                                                                                                                                                                                                                                                                                                                            | eClass                                                                                                                         | 14                                                                                           | 27-24-22-08    |
|                                                                                                                                                                                                                                                                                                                                                                            | eClass                                                                                                                         | 12                                                                                           | 27-24-22-08    |
|                                                                                                                                                                                                                                                                                                                                                                            | eClass                                                                                                                         | 9.1                                                                                          | 27-24-22-08    |
|                                                                                                                                                                                                                                                                                                                                                                            | eClass                                                                                                                         | 9                                                                                            | 27-24-22-08    |
|                                                                                                                                                                                                                                                                                                                                                                            | eClass                                                                                                                         | 8                                                                                            | 27-24-22-08    |
|                                                                                                                                                                                                                                                                                                                                                                            | eClass                                                                                                                         | 7.1                                                                                          | 27-24-22-08    |
|                                                                                                                                                                                                                                                                                                                                                                            | eClass                                                                                                                         | 6                                                                                            | 27-24-22-08    |
|                                                                                                                                                                                                                                                                                                                                                                            | ETIM                                                                                                                           | 10                                                                                           | EC001423       |
|                                                                                                                                                                                                                                                                                                                                                                            | ETIM                                                                                                                           | 9                                                                                            | EC001423       |
|                                                                                                                                                                                                                                                                                                                                                                            | ETIM                                                                                                                           | 8                                                                                            | EC001423       |
|                                                                                                                                                                                                                                                                                                                                                                            | ETIM                                                                                                                           | 7                                                                                            | EC001423       |
|                                                                                                                                                                                                                                                                                                                                                                            | IDEA                                                                                                                           | 4                                                                                            | 3564           |
|                                                                                                                                                                                                                                                                                                                                                                            | UNSPSC                                                                                                                         | 15                                                                                           | 32-15-17-05    |
| Approvals / Certificates                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                |                                                                                              |                |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                |                                                                                              |                |

[Manufacturer Declaration](#)



[China RoHS](#)

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6/18/2025