DATALIGHT® Converter 1000

**product description:**

Media converter for connecting wired terminal devices. An RJ45 socket for connecting network-enabled terminal devices, an optical connector for Duplex Fibre 2.2 DATALIGHT, integrated media converter for the conversion of optical signals, for transfers of up to 1 Gbps. Voltage supply via external wall power supply.

The DATALIGHT converter offers wired network access for a terminal device. It can be connected to other DATALIGHT components via the Duplex Fibre 2.2 DATALIGHT. It is, e.g., connected directly to the router as an uplink for another DATALIGHT device or with a second converter to establish a point-to-point connection.

<table>
<thead>
<tr>
<th>Cat. no.:</th>
<th>Type</th>
<th>Content</th>
<th>PU</th>
<th>Total width mm</th>
<th>Total height mm</th>
<th>Total depth mm</th>
<th>Weight PU/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>257 40 011</td>
<td>DLC1011</td>
<td>1 PCS</td>
<td>12</td>
<td>82</td>
<td>84</td>
<td>0.17</td>
<td></td>
</tr>
</tbody>
</table>

**General properties**

- Interface / number of ports: 1 x RJ45, 1 x gigabit Ethernet POF
- Transmission rate: 1 Gbps
- Operating temperature: -5 °C to +45 °C (23 °F to 113 °F)
- Protection class according to DIN EN 60529: IP 20
- Protection class according to DIN EN 61140: II
- Installation: Desktop
- Additional RJ45 connections (1000 Mbps): ●

**Electrical properties**

- Voltage supply: DC 5V (external wall power supply 100 - 240 V ~ 50-60 Hz)
- Typical power consumption: max. 1 W

**Connection properties**

- Connection technology: RJ45 connection: DIN EN 60603-7-3: 2011-03
  Optical connection: 2.2 mm duplex gigabit Ethernet POF (IEEE 802.3bv)
  Euro plug, USB connection cable with 2.1 mm coaxial connector
- Contact spring material: CuSn
- Contact spring surface: 1.5 µm Ni / 1.3 Au
- Life (mating cycles): at least 2,500 mating cycles
- DIN EN 50173-1: 2003-06: Category 5e, 6
- IEC 60603-7-2: 2007: unshielded 100 MHz
- TIA / IAE-568-B.2-2001: Category 5e

---

FRÄNKISCHE Rohrwerke Gebr. Kirchner GmbH & Co. KG | Hellinger Str. 1 | 97486 Königsberg/Bayern
Hotline +49 9525 88-6123 | Fax +49 9525 88-2151 | info.elektro@fraenkische.com | www.fraenkische.com

subject to alterations  page 1 of 1 effective: 15.10.2019
**DATALIGHT® Converter 1000**

**Optical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data transmission rate</td>
<td>1000 Mbps, adaptive lower according to specified power budget</td>
</tr>
<tr>
<td>Gigabit Ethernet output power (transmitter)</td>
<td>-5.8 dBm min.</td>
</tr>
<tr>
<td>Gigabit Ethernet input power (receiver)</td>
<td>-16.5 dBm min.</td>
</tr>
<tr>
<td>Gigabit Ethernet transmission length</td>
<td>typ. 50 m (164 ft.) with POF 2.2 mm class A4,a2 acc. to IEC 60793-2</td>
</tr>
<tr>
<td>Maximum transmission length</td>
<td>typ. 90 m (295 ft.) with POF 2.2 mm class A4,a2 acc. to IEC 60793-2</td>
</tr>
<tr>
<td>Backward compatibility</td>
<td>Backward compatible with 802.3-FX (100 Mbps POF)</td>
</tr>
<tr>
<td>Wavelength</td>
<td>typ. 650 nm</td>
</tr>
</tbody>
</table>

**Standardisation**

- EN 60950-1:2006 Information technology equipment - Safety - Part 1: General requirements
- EN 55022:2010 Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
  Applied in full
- EN 55025:2010 Information technology equipment - Immunity characteristics - Limits and methods of measurement
  Applied in full
- EN 50581:2013-02 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
  Applied in full

**Risk analysis**

The product has been manufactured and tested according to the harmonized standards EN 60950-1:2006 and EN 60825-2:2004 in the sense of harmonization legislation of the EU. All safety-relevant tests have been adhered to. This product poses no further risk.

**Accessories**

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium-duty corrugated plastic conduit</td>
<td>FFKuS DATALIGHT® 257 10 025</td>
</tr>
<tr>
<td>Data line</td>
<td>DLF       257 8x xxx</td>
</tr>
<tr>
<td>Separating tool</td>
<td>DLCUT     257 90 001</td>
</tr>
<tr>
<td>Connector</td>
<td>DLCON     257 50 002</td>
</tr>
<tr>
<td>Switch</td>
<td>DLES1026  257 31 026</td>
</tr>
<tr>
<td>Network outlet</td>
<td>DLUP1021  257 20 021</td>
</tr>
</tbody>
</table>

**Hotline**

Since technical developments cannot be foreseen, electrical installations should provide the possibility to be expanded at any time. If you generously install a system of unused conduits today, you can easily expand your electrical installations later. You save lots of time, money and effort!

We are happy to help you with your technical questions. Prompt information can be obtained from our technical consultants at +49 9525 88-8123.