Industrial Ethernet
IE-SW-BL06-2TX-4POE

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Product image

• 4 x IEEE 802.3af/at compliant PoE ports
• 12/24/48 VDC redundant wide-range power supply
• Integrated DC/DC converter for supplying 48 V PoE devices over the entire input voltage range from 12 to 57 VDC
• Intelligent power consumption detection and classification
• Variations with copper and fibre-optic interface (multimode and singlemode)

General ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>IE-SW-BL06-2TX-4POE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td>1241380000</td>
</tr>
<tr>
<td>Version</td>
<td>Network switch, unmanaged PoE, Fast Ethernet, Number of ports: 2 * RJ45 10/100 BaseT(X), 4 * RJ45 10/100 BaseT(X) PoE+, IP30, -10 °C...60 °C</td>
</tr>
<tr>
<td>GTIN (EAN)</td>
<td>4050118029093</td>
</tr>
<tr>
<td>Qty.</td>
<td>1 pc(s).</td>
</tr>
</tbody>
</table>

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## Technical data

### Dimensions and weights

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value 1</th>
<th>Value 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>50 mm</td>
<td>1.969 inch</td>
</tr>
<tr>
<td>Height</td>
<td>114 mm</td>
<td>4.488 inch</td>
</tr>
<tr>
<td>Depth</td>
<td>70 mm</td>
<td>2.756 inch</td>
</tr>
<tr>
<td>Net weight</td>
<td>375 g</td>
<td></td>
</tr>
</tbody>
</table>

### Environmental Product Compliance

<table>
<thead>
<tr>
<th>Compliance Type</th>
<th>Compliant with</th>
</tr>
</thead>
<tbody>
<tr>
<td>REACH SVHC</td>
<td>Lead 7439-92-1</td>
</tr>
</tbody>
</table>

### EMC conformity and approvals

<table>
<thead>
<tr>
<th>EMC standards</th>
<th>Compliant with</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCC Part 15 Subpart B</td>
<td></td>
</tr>
<tr>
<td>Class A, EN 55032, EN</td>
<td></td>
</tr>
<tr>
<td>55024, IEC 61000-4-2</td>
<td></td>
</tr>
<tr>
<td>ESD: Contact: 6 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz to 1 GHz; 20 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV, IEC 61000-4-6 CS: 10 V, EN 61000-4-8</td>
<td>Free fall according to IEC 60068-2-32</td>
</tr>
</tbody>
</table>

### Security

<table>
<thead>
<tr>
<th>Security Standard</th>
<th>Compliant with</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL508</td>
<td></td>
</tr>
</tbody>
</table>

### Vibration

<table>
<thead>
<tr>
<th>Compliance Type</th>
<th>Compliant with</th>
</tr>
</thead>
<tbody>
<tr>
<td>according to IEC 60068-2-6</td>
<td></td>
</tr>
</tbody>
</table>

### Environmental conditions

<table>
<thead>
<tr>
<th>Condition Type</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity</td>
<td>5 to 95 % (non-condensing)</td>
</tr>
<tr>
<td>Operating temperature, max.</td>
<td>60 °C</td>
</tr>
<tr>
<td>Storage temperature, min.</td>
<td>-10 °C</td>
</tr>
<tr>
<td>Storage temperature, max.</td>
<td>85 °C</td>
</tr>
<tr>
<td>Storage temperature, min.</td>
<td>-40 °C</td>
</tr>
</tbody>
</table>

### Guarantee

| Time interval | 5 years |

### Interfaces

<table>
<thead>
<tr>
<th>Interface Type</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIP switch</td>
<td>Broadcast storm protection enable/disable</td>
</tr>
<tr>
<td>Number of ports</td>
<td>2 x RJ45 10/100 BaseT(X), 4 x RJ45 10/100 BaseT(X) PoE+</td>
</tr>
<tr>
<td>RJ45 ports</td>
<td>10/100BaseT(X), auto negotiation, Full/half-duplex mode, Auto MDI/MDI-X port</td>
</tr>
<tr>
<td>PoE pin assignment</td>
<td>Mode A: Pin 1, 2 (V+); Pin 3, 6 (V-); Alternative A: MDI</td>
</tr>
</tbody>
</table>

### MTBF

<table>
<thead>
<tr>
<th>MTBF</th>
<th>MTBF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,398,743 hrs</td>
<td>Telcordia (Belcore), GB</td>
</tr>
</tbody>
</table>
# Technical data

## Power supply

<table>
<thead>
<tr>
<th>Connection type</th>
<th>1 removable 4-pin terminal block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inrush current</td>
<td>64.56 A at 48 V DC (0.1 to 1 ms)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Overload current protection</th>
<th>Existing</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Supply voltage, max</th>
<th>57 V DC</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Voltage supply</th>
<th>12/24/48 V DC, 2 redundant inputs</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Current consumption</th>
<th>6.19 A at 12 V DC, 5.55 A at 24 V DC, 2.71 A at 48 V DC</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Max. power output (PoE)</th>
<th>62 W at 12 V DC (12 to 17 V DC), 120 W at 24/48 V DC (18 to 57 V DC)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Power loss</th>
<th>36.4 BTU/h</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Supply voltage, min.</th>
<th>12 V DC</th>
</tr>
</thead>
</table>

## Switch characteristics

<table>
<thead>
<tr>
<th>MAC table size</th>
<th>2 K</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Packet buffer size</th>
<th>768 Kbit</th>
</tr>
</thead>
</table>

## Technical data

<table>
<thead>
<tr>
<th>Housing main material</th>
<th>Aluminium</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Type of mounting</th>
<th>Rail, Panel (with optional mounting kit)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Protection degree</th>
<th>IP30</th>
</tr>
</thead>
</table>

## Technology

<table>
<thead>
<tr>
<th>Data switching</th>
<th>Store and Forward</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Flow control</th>
<th>IEEE 802.3x flow control, Back pressure flow control</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Standard</th>
<th>IEEE 802.3af for Power-over-Ethernet, IEEE 802.3at for Power-over-Ethernet, IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X), IEEE 802.3x for flow control</th>
</tr>
</thead>
</table>

## Classifications

<table>
<thead>
<tr>
<th>ETIM 4.0</th>
<th>EC002598</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETIM 6.0</td>
<td>EC000734</td>
</tr>
<tr>
<td>eClass 7.1</td>
<td>19-17-01-06</td>
</tr>
<tr>
<td>eClass 9.0</td>
<td>19-17-01-06</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ETIM 5.0</th>
<th>EC002598</th>
</tr>
</thead>
<tbody>
<tr>
<td>eClass 6.2</td>
<td>19-17-01-06</td>
</tr>
<tr>
<td>eClass 8.1</td>
<td>19-17-01-06</td>
</tr>
<tr>
<td>eClass 9.1</td>
<td>19-17-01-06</td>
</tr>
</tbody>
</table>

## Approvals

<table>
<thead>
<tr>
<th>Approvals</th>
<th>ROHS</th>
</tr>
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<tbody>
<tr>
<td>CONFORM</td>
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Technical data

Downloads

<table>
<thead>
<tr>
<th>Approval/Certificate/Document of Conformity</th>
<th>EU Declaration of Conformity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brochure/Catalogue</td>
<td>CAT 9 IETH 15/16 EN</td>
</tr>
<tr>
<td>Engineering Data</td>
<td>EPLAN, WSCAD, Zuben E3.5</td>
</tr>
<tr>
<td>Product Change Notification</td>
<td>Product Change Notification IE-SW-BL06-PoE-series</td>
</tr>
<tr>
<td>User Documentation</td>
<td>Hardware Installation Guide</td>
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