Pulse Electronics has expanded its range of 100BASE-TX Ethernet products for use in Industrial network and bus topologies.

More industrial applications are being linked together using 10/100Mbps fast Ethernet or a similar, time sensitive network protocol like:

- Profi-Bus® - Profi-Net® - EtherCAT®
- PowerLink - Ethernet/IP - Sercos-III

These interfaces require safety Isolation, which is provided by Pulse transformer modules. Pulse has a large product portfolio for supporting your Industrial Ethernet needs. All parts meet IEEE802.3 and IEC/UL60950 standards, provide 1500Vrms breakdown and common mode noise reduction within a single device.

**Features and Benefits:**
- Industrial temperature range -40°C to +85°C with high reliability
- Supports all major PHY manufacturers and new protocols
- Multiple package height available: 2.0mm, 3.2mm, 5.8mm and 6.6mm
- RoHS-6 and UL94V-0 rated material
- Industry standard footprints and pad layouts
- Single, Dual or Quad port with/out PoE/PoE+
- Designer Kits

**Applications:**
Industrial Automation, Process or Remote Control and Monitoring, Campus, Factory or Rugged Communication Networks, Power over Ethernet, Touch screen Display & Panels, Security & Image processing, Access Control

**Datasheets**
**Order Samples**
**BUY NOW**

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## Industrial Fast Ethernet Designer Kit Parts List – Designer Kit# UKIT-001FE

<table>
<thead>
<tr>
<th>PART No.</th>
<th>No. Ports</th>
<th>Turns Ratio</th>
<th>Auto-MDIX</th>
<th>Circuit Schematic</th>
<th>Package style</th>
<th>Package Size (mm) (L x W x H)</th>
<th>PoE or PoE+</th>
<th>QTY Per Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HX0068ANL</td>
<td>Single</td>
<td>1CT : 1CT</td>
<td>YES</td>
<td>TYPE A</td>
<td>PCMCIA</td>
<td>12.7 x 9.52 x2.50</td>
<td>STD</td>
<td>6</td>
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<td>HX1098NL</td>
<td>Single</td>
<td>1CT : 1CT</td>
<td>YES</td>
<td>TYPE A</td>
<td>16P-LPP</td>
<td>12.7 x 9.52 x 4.01</td>
<td>STD</td>
<td>4</td>
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<tr>
<td>HX1188NL</td>
<td>Single</td>
<td>1CT : 1CT</td>
<td>YES</td>
<td>TYPE A</td>
<td>16P-TP</td>
<td>12.7 x 9.52 x 5.89</td>
<td>STD</td>
<td>8</td>
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<tr>
<td>HX1198NL</td>
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<td>TYPE A</td>
<td>16P-TP</td>
<td>12.7 x 9.52 x 5.89</td>
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<tr>
<td>HX1217NL</td>
<td>Single</td>
<td>1CT : 1CT</td>
<td>YES</td>
<td>TYPE F</td>
<td>16P-TP</td>
<td>12.7 x 9.52 x 5.89</td>
<td>STD</td>
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<td>HX2019NL</td>
<td>Single</td>
<td>1CT : 1CT</td>
<td>YES</td>
<td>TYPE C</td>
<td>16P-TP</td>
<td>12.7 x 9.52 x 5.89</td>
<td>PoE</td>
<td>8</td>
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<tr>
<td>HX2326NL</td>
<td>Single</td>
<td>1CT : 1CT</td>
<td>YES</td>
<td>TYPE E</td>
<td>16P-TP</td>
<td>12.7 x 9.52 x 5.89</td>
<td>PoE+</td>
<td>4</td>
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<tr>
<td>HX1112QNL</td>
<td>Single</td>
<td>1CT : 1CT</td>
<td>NO</td>
<td>TYPE D</td>
<td>12P-SQP</td>
<td>14.8 x 14.7 x 4.88</td>
<td>STD</td>
<td>6</td>
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<tr>
<td>HX1294NL</td>
<td>Dual</td>
<td>1CT : 1CT</td>
<td>YES</td>
<td>TYPE B</td>
<td>24P-SLP</td>
<td>13.7 x 18.8 x 5.87</td>
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<td>HX6062NL</td>
<td>Dual</td>
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<td>YES</td>
<td>TYPE E</td>
<td>24P-TP</td>
<td>17.5 x 16.0 x 5.51</td>
<td>PoE</td>
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<td>HX1344NL</td>
<td>Quad</td>
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<td>40P-TP</td>
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<tr>
<td>HX6080NL</td>
<td>Quad</td>
<td>1CT : 1CT</td>
<td>YES</td>
<td>TYPE E</td>
<td>48P-TP</td>
<td>27.8 x 15.2 x 7.24</td>
<td>PoE</td>
<td>4</td>
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</tbody>
</table>

**Note:** Datasheets with full electrical and mechanical specifications can be found on the Pulse website. Samples can be ordered via the sample portal on the Pulse website.

### Generic Electrical Specification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolation Voltage :</td>
<td>1500Vrms</td>
</tr>
<tr>
<td>OCL : (100KHz, 0.1Vrms, 8mA)</td>
<td>350uH min</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>Insertion Loss : (1-100MHz)</td>
<td>1.1dB</td>
</tr>
<tr>
<td>Return Loss : 1-40MHz</td>
<td>-18dB</td>
</tr>
<tr>
<td></td>
<td>-14.5dB</td>
</tr>
<tr>
<td></td>
<td>-12dB</td>
</tr>
<tr>
<td>Cross Talk : 40MHz</td>
<td>-37dB</td>
</tr>
<tr>
<td></td>
<td>-35dB</td>
</tr>
<tr>
<td></td>
<td>-30dB</td>
</tr>
<tr>
<td>Common Mode Rejection – CMR :</td>
<td>-30dB min</td>
</tr>
<tr>
<td>(0.1 – 1000MHz)</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>ULV94V-0</td>
</tr>
<tr>
<td>Moisture Sensitivity Level</td>
<td>MSL1</td>
</tr>
</tbody>
</table>

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