

# Fast Ethernet Product Designer Kits for Industrial Automation, Process Control and Communications

Kit# - UKIT-001FE

## 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<sup>®</sup> - Profi-Net<sup>®</sup> - EtherCAT<sup>®</sup>  
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



PCMCIA



16P-LPP



16P-STP



12P-SQP



40P-STP



24P-STP



48P-STP



[Datasheets](#)

[Order Samples](#)

[BUY NOW](#) Buy Now



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

PART No.	No. Ports	Turns Ratio	Auto-MDIX	Circuit Schematic	Package style	Package Size (mm) (L x W x H)	PoE or PoE+	QTY Per Kit
<a href="#">HX0068ANL</a>	Single	1CT : 1CT	YES	TYPE A	PCMCIA	12.7 x 9.52 x 2.50	STD	6
<a href="#">HX1098NL</a>	Single	1CT : 1CT	YES	TYPE A	16P-LPP	12.7 x 9.52 x 4.01	STD	4
<a href="#">HX1188NL</a>	Single	1CT : 1CT	YES	TYPE A	16P-STP	12.7 x 9.52 x 5.89	STD	8
<a href="#">HX1198NL</a>	Single	1CT : 1CT	YES	TYPE A	16P-STP	12.7 x 9.52 x 5.89	STD	4
<a href="#">HX1217NL</a>	Single	1CT : 1CT	YES	TYPE F	16P-STP	12.7 x 9.52 x 5.89	STD	4
<a href="#">HX2019NL</a>	Single	1CT : 1CT	YES	TYPE C	16P-STP	12.7 x 9.52 x 5.89	PoE	8
<a href="#">HX2326NL</a>	Single	1CT : 1CT	YES	TYPE E	16P-STP	12.7 x 9.52 x 5.89	PoE+	4
<a href="#">HX1112QNL</a>	Single	1CT : 1CT	NO	TYPE D	12P-SQP	14.8 x 14.7 x 4.88	STD	6
<a href="#">HX1294NL</a>	Dual	1CT : 1CT	YES	TYPE B	24P-SLP	13.7 x 18.8 x 5.87	STD	4
<a href="#">HX6062NL</a>	Dual	1CT : 1CT	YES	TYPE E	24P-STP	17.5 x 16.0 x 5.51	PoE	4
<a href="#">HX1344NL</a>	Quad	1CT : 1CT	YES	TYPE B	40P-STP	28.5 x 16.0 x 5.75	STD	4
<a href="#">HX6080NL</a>	Quad	1CT : 1CT	YES	TYPE E	48P-STP	27.8 x 15.2 x 7.24	PoE	4

**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

Parameter	
Isolation Voltage :	1500Vrms
OCL : (100KHz, 0.1Vrms, 8mA)	350uH min
Operating Temperature	-40°C to +85°C
Insertion Loss : (1-100MHz)	1.1dB
Return Loss :	
1-40MHz	-18dB
60MHz	-14.5dB
80Mhz	-12dB
Cross Talk :	
40MHz	-37dB
60MHz	-35dB
100MHz	-30dB
Common Mode Rejection – CMR : (0.1 – 1000Mhz)	-30dB min
Flammability	ULV94V-0
Moisture Sensitivity Level	MSL1

