

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[®] - 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



PCMCIA



16P-LPP



16P-STP



12P-SQP



40P-STP



24P-STP



48P-STP



[Datasheets](#)

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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
HX0068ANL	Single	1CT : 1CT	YES	TYPE A	PCMCIA	12.7 x 9.52 x 2.50	STD	6
HX1098NL	Single	1CT : 1CT	YES	TYPE A	16P-LPP	12.7 x 9.52 x 4.01	STD	4
HX1188NL	Single	1CT : 1CT	YES	TYPE A	16P-STP	12.7 x 9.52 x 5.89	STD	8
HX1198NL	Single	1CT : 1CT	YES	TYPE A	16P-STP	12.7 x 9.52 x 5.89	STD	4
HX1217NL	Single	1CT : 1CT	YES	TYPE F	16P-STP	12.7 x 9.52 x 5.89	STD	4
HX2019NL	Single	1CT : 1CT	YES	TYPE C	16P-STP	12.7 x 9.52 x 5.89	PoE	8
HX2326NL	Single	1CT : 1CT	YES	TYPE E	16P-STP	12.7 x 9.52 x 5.89	PoE+	4
HX1112QNL	Single	1CT : 1CT	NO	TYPE D	12P-SQP	14.8 x 14.7 x 4.88	STD	6
HX1294NL	Dual	1CT : 1CT	YES	TYPE B	24P-SLP	13.7 x 18.8 x 5.87	STD	4
HX6062NL	Dual	1CT : 1CT	YES	TYPE E	24P-STP	17.5 x 16.0 x 5.51	PoE	4
HX1344NL	Quad	1CT : 1CT	YES	TYPE B	40P-STP	28.5 x 16.0 x 5.75	STD	4
HX6080NL	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

