

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

Kit# - UKIT-002GB

## Pulse Electronics has expanded its range of 1000BASE-T Ethernet products for use in Industrial network and bus topologies.

Industrial applications are being linked together using the faster, more flexible 1000Base-T or Gigabit Ethernet. The higher data rate provides the bandwidth to support multi-rate devices on the same Industrial network and is backward compatibility with older equipment

Pulse Electronics designs a wide range of 1Gigabit transformer modules for Industrial temperature range and safety Isolation. 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 port with/out PoE/PoE+
- Design Kits available upon request

## Applications:

Industrial Switches, Routers, Interfaces for Automation, Process, Remote and Access Control and Monitoring, Campus, Factory or Rugged Communication Networks, Power over Ethernet, Touch Panel Display, Security, Image and embedded processing.



24P-LPP



24P-STP/ 24P-TTP



24P-LSP



PCMCIA



24P-SQP



48P-STP



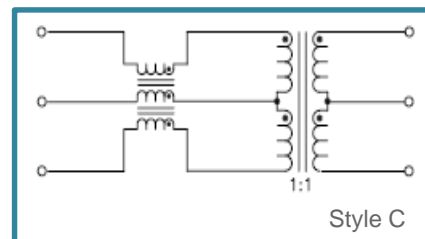
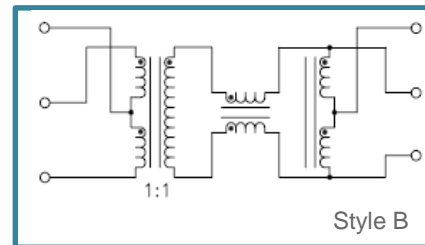
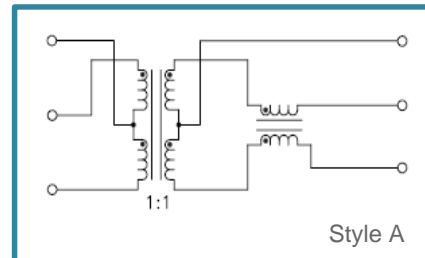
## Industrial Gigabit Designer Kit Parts List – Kit# UKIT-002GB:

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="#">HX5120NL</a>	Single	1CT : 1CT	YES	TYPE A	PCMCIA	16.5 x 9.6 x 2.08	STD	4
<a href="#">HX5149NL</a>	Single	1CT : 1CT	YES	TYPE C	24P-LPP	17.8 x 10.4 x 3.20	STD	6
<a href="#">HX5181NL</a>	Single	1CT : 1CT	YES	TYPE C	24P-SQP	13.8 x 15.4 x 6.35	STD	6
<a href="#">HX5004ENL</a>	Single	1CT : 1CT	YES	TYPE A	24P-STP	17.5 x 16.0 x 5.72	STD	8
<a href="#">HX5062NL</a>	Single	1CT : 1CT	YES	TYPE B	24P-STP	17.5 x 16.0 x 5.72	STD	4
<a href="#">HX5008NL</a>	Single	1CT : 1CT	YES	TYPE B	24P-LSP	13.2 x 18.7 x 6.15	STD	6
<a href="#">HX5014NL</a>	Dual	1CT : 1CT	YES	TYPE A	48P-STP	27.8 x 15.4 x 7.24	STD	4
<a href="#">HX6062NL</a>	Single	1CT : 1CT	YES	TYPE C	24P-STP	17.5 x 16.0 x 5.72	PoE	6
<a href="#">HX6096NL</a>	Single	1CT : 1CT	YES	TYPE C	24P-TTP	17.5 x 16.0 x 6.60	PoE+	4
<a href="#">HX6098NL</a>	Single	1CT : 1CT	YES	TYPE C	24P-TTP	17.5 x 16.0 x 6.60	PoE++	4
<a href="#">HX6080NL</a>	Dual	1CT : 1CT	YES	TYPE C	48P-STP	27.8 x 15.4 x 7.24	PoE	4
<a href="#">HX6101NL</a>	Dual	1CT : 1CT	YES	TYPE C	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	Specification
Isolation Voltage :	1500Vrms
OCL : (100KHz, 0.1Vrms, 8mA)	350uH min
Operating Temperature	-40°C to +85°C
Insertion Loss : (1-125MHz)	1.1dB
Return Loss :	
1-40MHz	-16dB
60MHz	-14.5dB
80Mhz	-12dB
100Mhz	-10dB
Cross Talk :	
40MHz	-37dB
60MHz	-35dB
100MHz	-30dB
Common Mode Rejection – CMR : (0.1 – 1000Mhz)	-35dB min
Flammability	ULV94V-0
Moisture Sensitivity Level	MSL1



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