



PRODUCT OVERVIEW

YAGEO Group's **JXD1-102xNL-** series of low Profile, mid-Mount, Trough Hole Reflow (THR) compatible ICMs, provide Ethernet connectivity for industrial Ethernet rate from 100Mb to 1Gbit.

The **JXD1-1025NL** supports 30W 4 pair PoE with Internal powerline choke; making it ideal for proprietary system requiring remote DC power feed installed up to 100M away.

This **JXD1-** Low Profile family are UL listed, RoHS, REACH compliant and support IR Reflow Soldering at 245°Cpk, removing the need for a secondary solder process during PCB assembly.



Quick Facts NEW

Mid-Mount, low profile design for Industrial Ethernet where overall equipment height is an issue.

Support IEEE802.3at, 30W PoE+ over 4 pair for 100Mb data rates providing remote DC power to Terminal sensing equipment

Design compatible with 245°C IR Reflow supporting Pin-in-Paste (PiP) or Through hole reflow (THR)

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Wired Comms

PulseJack™ ICM

Low Profile, THR 10/100/1000Base-T ICM



Key Selling Points

Features

IEEE 802.3 Gigabit Compliant

Customer Value

Internal circuitry supports both Voltage and current driven PHYs

Supports remote DC Power feed over cable

Supports IEEE802.3at, Enables 4pair 30W (600mA) DC power

Low Profile, Mid-Mount Form Factor (LWH)

<10mm height above PCB (26.06 x 17.58 x 11.30/9.39mm)

Wide Operating Temperature

Industrial Grade -40 to +85°C working range with PoE (30W)

Reliable Performance

UL certified, Modular construction with Auto wound coils

Pin-in-Paste / THR Technology Compatible

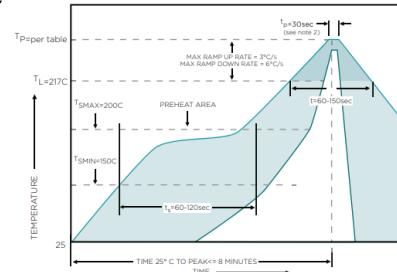
Designed for Wave and reflowing soldering – ensuring easy integration into high-volume manufacturing

Target Applications

- Industrial Switches
- Routers – Copper and Wi-fi
- Network Cards
- Process Control
- Low Profile Embedded Computing
- Security entry systems
- PZT Digital Cameras
- Remote powered Sensing

Market Advantages

- Compact footprint with range of Data rates
- 30W PoE over 4 pair Cabling in small PCB area
- UL Certified modular design for high Reliability
- RoHS, REACH and lead Free
- IR reflow compatible
 - JEDEC-J-STD-020F
 - 245°C peak
 - MSL 1



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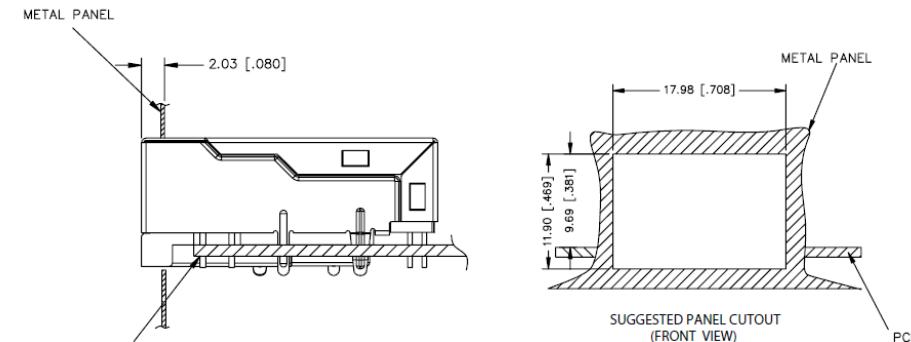
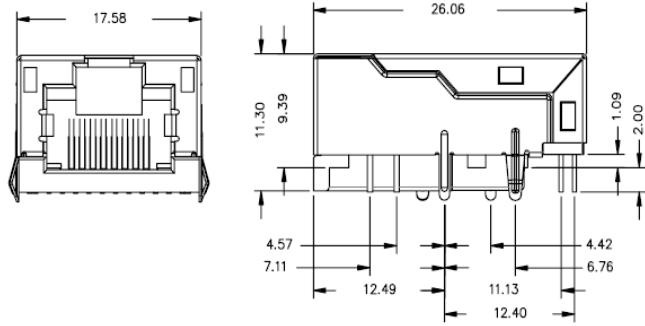


Wired Comms

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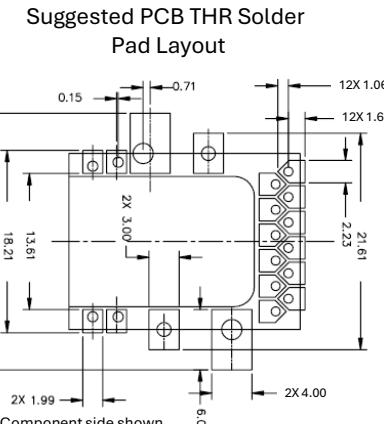
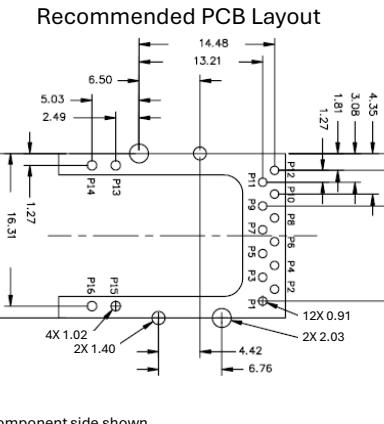
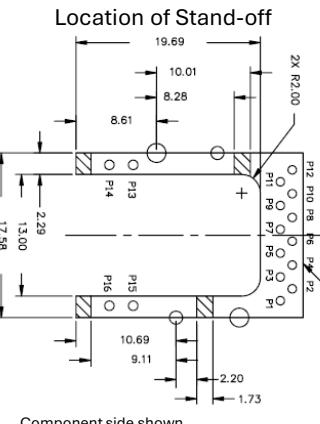
YAGEO
Built into Tomorrow



Part Number	Speed	4Pair PoE	Insertion loss (MAX)	Return Loss	Common Mode Rejection	Schematic	LED option (Left/Right)
JXD1-1020NL	10/100Base-TX	Non	-1.2dB @ 100MHz	-10dB @ 60-80MHz	-30dB @ 1-100MHz	Circuit A	Yellow - Green
JXD1-1025NL	10/100Base-TX	30W 4pair	-1.2dB @ 100MHz	-10dB @ 60-80MHz	-30dB @ 1-100MHz	Circuit B	Yellow - Green
JXD1-1022NL	1000Base-T	None	-1.2dB @ 125MHz	-10dB @ 100MHz	-30dB @ 1-100MHz	Circuit C	Yellow - Green

LED Pin out

P13 Y
P14 G
P15 G
P16 G



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