

LAN & Signal Transformer

RFQ Checklist & Selection Quick Reference

Share as much of the detail below as you can — the more we have, the faster one dedicated engineer can return a proposed design and indicative pricing (typically within 48 hours). P&A International is an engineering-led contract manufacturer; every supplier in our network is ISO 9000 certified or better.

1. What to send us for a fast, accurate quote

- Data rate (10/100/1000 / multi-gig) and target PHY
- Single or multi-port and format (discrete / module / RJ45)
- Required insertion loss, return loss and CMRR
- Isolation / hi-pot voltage and PoE class if applicable
- Footprint, pin-out and connector
- Target cost and annual volume or call-off pattern
- Any reference design, competitor part number or datasheet

2. Which LAN / signal type? - quick reference

Option	Best for
Ethernet LAN	10/100/1000 and multi-gig, matched to your PHY.
PoE / PoE+	LAN magnetics with PoE current handling.
RJ45-integrated	Connector with integrated magnetics, compact.
Pulse / signal	Data-line isolation and gate-drive transformers.

3. Design factors that shape the quote

- **Data rate & PHY:** 10/100/1000 or multi-gig and your PHY set turns ratio, inductance and return loss.
- **Common-mode rejection:** integrated chokes and balanced winding to the level needed.
- **Isolation & hi-pot:** IEEE 802.3, reinforced to IEC 62368-1 and your hi-pot voltage.
- **Ports & format:** single/multi-port, discrete, SMD module or RJ45-magnetics.
- **PoE:** current handling and saturation designed in where required.

Send your completed checklist (and any drawing or sample) and one dedicated engineer will respond with a proposed design and indicative pricing. No project too big or too small.

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