



# LAN Product Guide – Servers

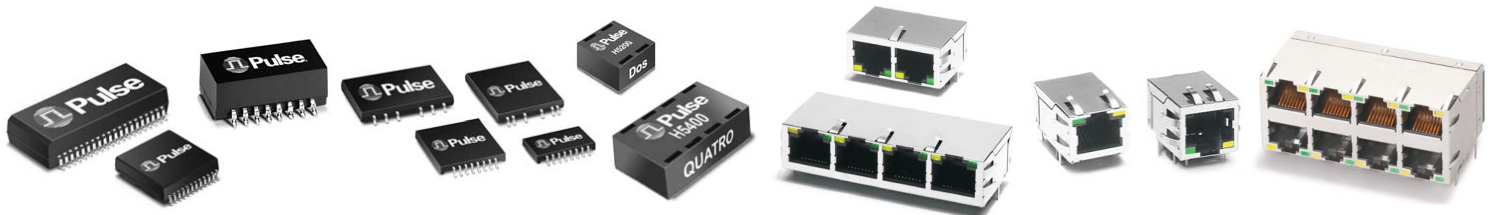
Ideal for single and multi-port server applications.

Available for PoE, PCI-Express Cards and RoHS 6 compliant applications.

Custom design options available (LED, pinout).

X = extended temp, P = PoE, NL = RoHS compliant, A = AutoMDIX.

MAGNETICS		CONNECTORS WITH INTEGRATED MAGNETICS	
10/100	Gigabit	10/100	Gigabit
<b>SINGLE:</b> H1102NL <sup>A</sup> HX1188NL <sup>A,X</sup> H2019NL <sup>A,P</sup>	<b>SINGLE:</b> H5007NL <sup>A</sup> HX5004NL <sup>A,X</sup> H6062NL <sup>A,P</sup>	<b>1X1:</b> J1011F21PNL <sup>A</sup> JK0-0144NL <sup>A,P</sup> J00-0045NL <sup>A</sup> JXK0-0025NL <sup>A,P,X</sup> JX00-0027NL <sup>A,X</sup>	<b>1X1:</b> JK0-0036NL <sup>A</sup> JK0-0132NL <sup>A</sup> JXK0-0036NL <sup>A,X</sup> JK0-0161NL <sup>A,P,X</sup>
<b>DUAL:</b> H1270NL <sup>A</sup> HX1294NL <sup>A,X</sup> H2006ANL <sup>A,P</sup>	<b>DUAL:</b> H5014NL <sup>A</sup> H5200NL <sup>A,P</sup> HX5014NL <sup>A,X</sup> H5201NL <sup>A,P</sup>	<b>1X2:</b> J80-0019NL <sup>A</sup> JX80-0037NL <sup>A,X</sup>	<b>1X2:</b> JG0-0129NL <sup>A</sup> JXG0-0129NL <sup>A,X</sup> JG0-0134NL <sup>A</sup>
<b>QUAD:</b> H1164NL <sup>A</sup> H1259NL <sup>A,P</sup> HX1234NL <sup>A,X</sup> HX1259NL <sup>A,P,X</sup>	<b>QUAD:</b> H5400NL <sup>A,P</sup> H5401NL <sup>A,P</sup> HX5400NL <sup>A,P,X</sup> HX5401NL <sup>A,P,X</sup>	<b>1X4:</b> J80-0004NL <sup>A</sup> J80-0011NL <sup>A</sup> JX80-0033NL <sup>A,X</sup>	<b>1X4:</b> JG0-0098NL <sup>A</sup> JG0-0136NL <sup>A</sup> JXG0-0098NL <sup>A,X</sup>





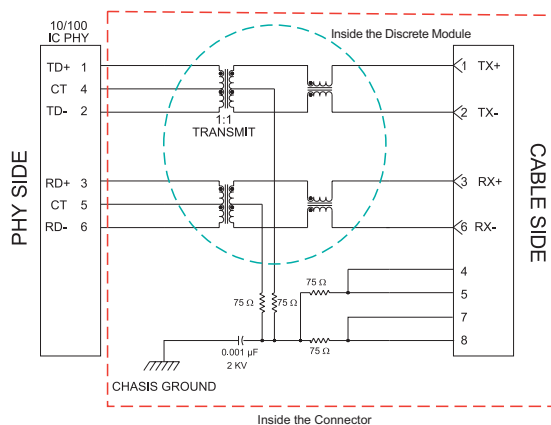
**Pulse**  
A TECHNITROL COMPANY

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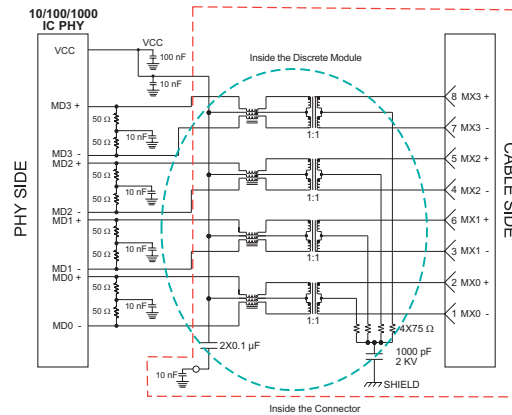
## Application Notes

- Layering ground planes is advisable. Route connector/discrete module ground pins to chassis/analog ground if possible.
- Keep signal traces from PHY to connector/discrete module as short as possible. If traces exceed 3-4 inches, pay close attention to line impedance imbalance.
- Using BST (75 Ω resistors and high voltage cap to chassis ground) to terminate Cable side CTs is advisable for best EMI performance (included in most connector solutions).
- Follow PHY manufacturer's application notes for further layout considerations.

### 10/100 APPLICATION CIRCUIT



### GIGABIT APPLICATION CIRCUIT



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