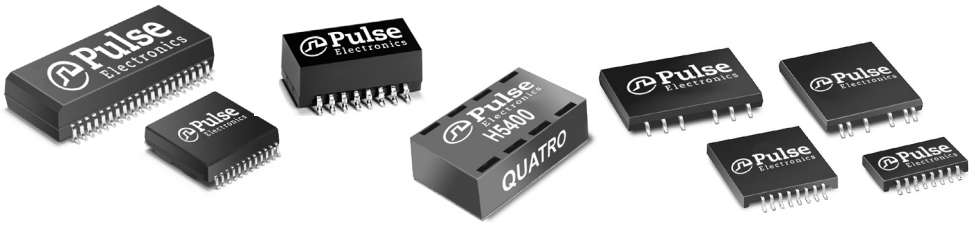
LAN Product Guide – PoE & PoE+Applications

- *Available for 1000BASE-T and 100BASE-TX data rates*
- *SMT (surface mount) discrete and THT (through hole) connector modules with integrated magnetics, available with or without LED's.*
- *Meets IEEE 802.3af specification for PoE applications*
- *Meets IEEE 802.3at specification for PoE+ applications*
- *Available for Extended Temp., Low-Profile, PSE, and PD applications*
- *X = extended temp, P = PoE, PP = PoE+, 4 = 4 Pair, VM = Vertical Mount*

DISCRETE MAGNETICS			CONNECTORS WITH INTEGRATED MAGNETICS		
100BASE-TX	**1000BASE-T**	**10G**	**100BASE-TX**	**1000BASE-T**	**10G**
SINGLE: H2019NL^{P} HX2019NL^{X} H2260NL H1263NL HX2260NL^{X} HX2326NL$^{X, PP}$	**SINGLE:** H6062NL^{P} H6096NL^{PP} HX6096NL$^{X, PP}$ H6600NL^{PP} HX6062NL$^{X, P}$	H7029FNL^{P} H7229FNL^{PP}	**1X1:** JK0-0120NL^{P} JK0-0125NL^{P} JXD1-0005NL^{4P} JXD3-0003NL$^{4P, VM, X}$ JXKO-0125NL$^{X, P}$ JK0-0144NL^{4P} JK0-0144BNL^{4P} JDO-0004NL^{4P} JKM-0201NL$^{4P, PP}$	**1X1:** JK0-0145NL^{P} JK0-0177NL^{PP} JXK0-0190NL$^{X, PP}$ JK0-0161NL^{P} JK0-0133NL^{P}	JT7-1104NL^{PP} JT7-1115NL^{PP} JT7-1119NL^{PP}
DUAL: H2009NL^{P} H2305NL^{P} HX2305NL$^{P, X}$	**DUAL:** H6080NL^{P} HX6080NL^{X} H6101NL^{PP} HX6101NL^{PP} HX5200NL$^{X, P}$		**1XN:** J1N-0011NL^{P} (1X4) JG0-0031NL^{P} (1x2) JG0-0032NL^{P} (1x4)	**1XN:** J0N-0012NL (1X4) J0N-0013NL^{PP} (1X4) J1N-0008NL (1X4) J1N-0003NL^{PP} (1x4) J1N-0004NL^{PP} (1x4) J1N-0007NL^{PP} (1x4)	
QUAD: H2017NL^{P} H1259NL^{P} HX1259NL$^{X, P}$	**QUAD:** H5400NL^{P} H6400NL^{PP} HX5400NL^{X}		**2XN:** JX20-0235NL^{P} (2X4)	**2XN:** J0B-0364NL (2x4) J0B-0366NL (2x6) J0B-0368NL (2x8) J0B-0384NL^{PP} (2x4) J0B-0386NL^{PP} (2x6) J0B-0388NL^{PP} (2x8) J0B-3448NL^{PP} (2x6)	



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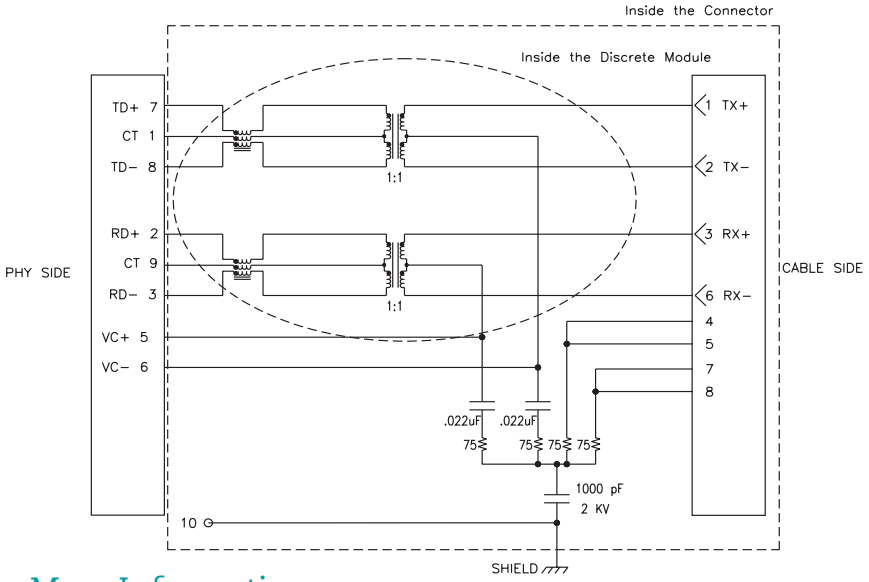
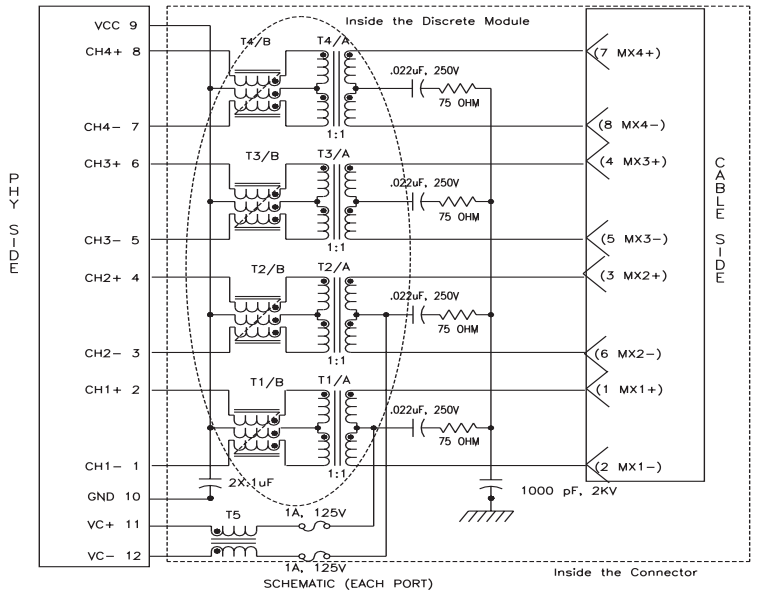
Application Notes

- *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 (75Ω 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.*
- *Common applications include: VoIP phones, WLAN APs, Security Cameras, POS Terminals, Keycard Access/Security.*

100BASE-TX APPLICATION CIRCUIT



1000BASE-T APPLICATION CIRCUIT



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