



THE DATASHEET OF H5014NLT

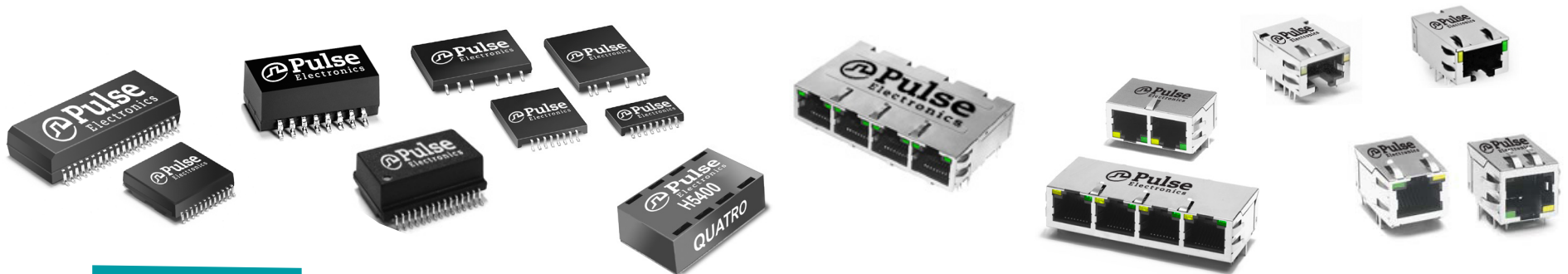




- Ⓜ Ideal for single and multi-port server applications
- Ⓜ Available for PoE, PoE+ and PCI - Express cards.

- Ⓜ Custom design options available (LED, pinout, extended temperature, etc...)
- Ⓜ X = extended temp, P = PoE, PP = PoE+, OS = Offset

MAGNETICS			CONNECTORS WITH INTEGRATED MAGNETICS			
10/100	Gigabit	10GBASE-T	10/100	Gigabit	10GBASE-T	
SINGLE: H1263NL H2019NLP HX1188NLX HX2326NLX, PP	SINGLE: H5062NL H5610NL H6062NLP HX5004ENX HX5062NLX HX5610NLX	SINGLE: (4 channel) (5 channel) H7028FNL H7137FNL ^P H7029FNL ^P	1X1: JD1-0003NL JD1-0004NL JKM-0009NL JKM-0010NL JKO-0125NLP JKO-0144NLP	1X1: J1L-0103NL ^{OS} JD1-0001NL JD1-0002NL JKM-0003NL JKM-0004NL JKO-0161NLP JKO-0177NLP JXKO-0190NL	1X1: (4 channel) (5 channel) JT4-1120HL JT3-1101HL JTH-0024NL JT3-1125HL JT4-1108HL JT4-1109HL JT4-1160HL	
DUAL: H1270FNL H2006ANLP HX1294NLX	DUAL: H5014NL HX5014NLX H5200NLP HX5200NLX H5201NL HX5201NLX	For Dual, please contact Pulse	1X2: JX80-0019NLX	1X2: JG0-0129NL JGL-0001NL ^{OS} JGL-0004NL ^{OS} JXG0-0129NLX	1X2: Available for sampling, please contact Pulse	
QUAD: H1164NL HX1234NLX H1259NLP HX1259NLPX H5200NLP HX5201NLX H5201NL HX5200NLX	QUAD: H5200NLP HX5400NLPX H5400NLP HX5401NLX H6400NLP ^{PP}	For Quad, please contact Pulse	1X4: J1N-0013NL J80-0004NL JX80-0033NLX	1X4: J1N-0002NL JG0-0098NL JXG0-0098NLX	1X4: (4 channel) JT6-1473NL JT6-1480NLP ^{PP}	

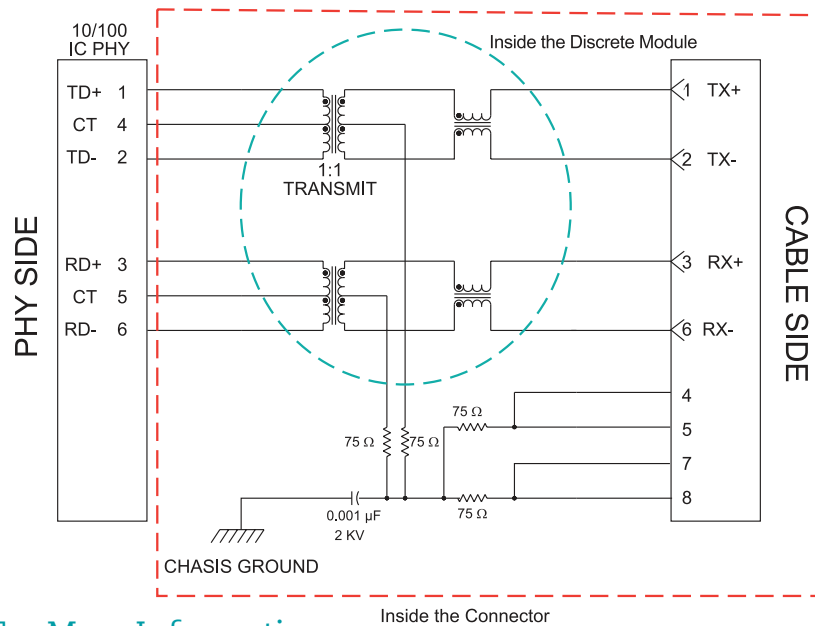




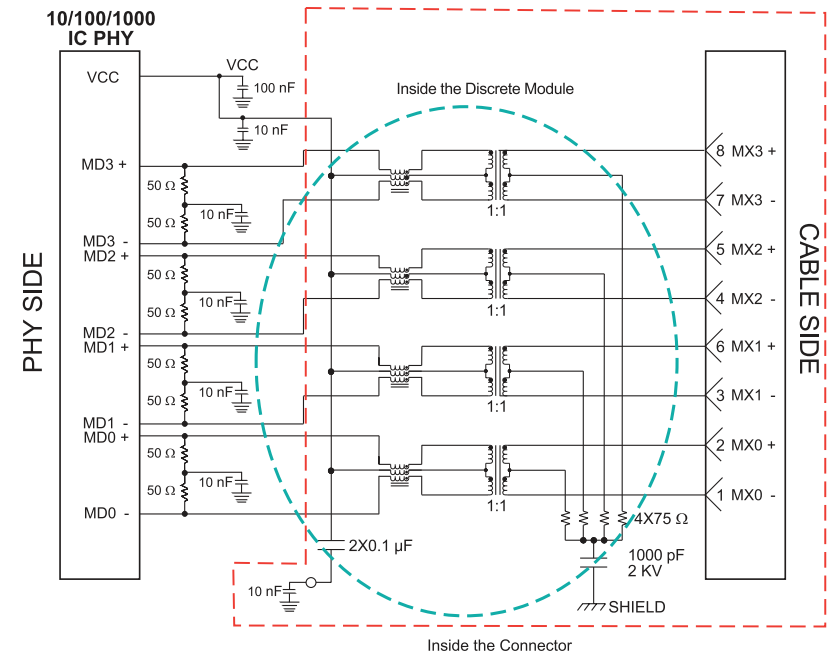
Application Notes

- 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

10/100 APPLICATION CIRCUIT



TYPICAL 10GBASE-T /GIGABIT CIRCUIT



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