

LAN DISCRETE TRANSFORMER MODULES



Pulse Discrete Transformer Modules

Pulse offers the most comprehensive line of discrete LAN transformer modules available to the OEM worldwide. Modules for 10/100/1000BASE-T are optimized for all major LAN transceivers. All modules provide electrical circuit isolation that meets IEEE 802.3, while maintaining signal integrity needed for the most demanding applications.

Pulse manufactures the broadest selection of packaging options, from through hole (THT) SIL devices to the smallest available surface mount (SMT) solution at .078" (1.98 mm). For RoHS compliant products, please refer to individual data sheets for details.

NOTE: This catalog section serves as an overview to the LAN discrete modules. For detailed data sheets and a complete list of LAN discrete modules, please go to the Pulse website home page and click the link on the left that says "DATA SHEETS."

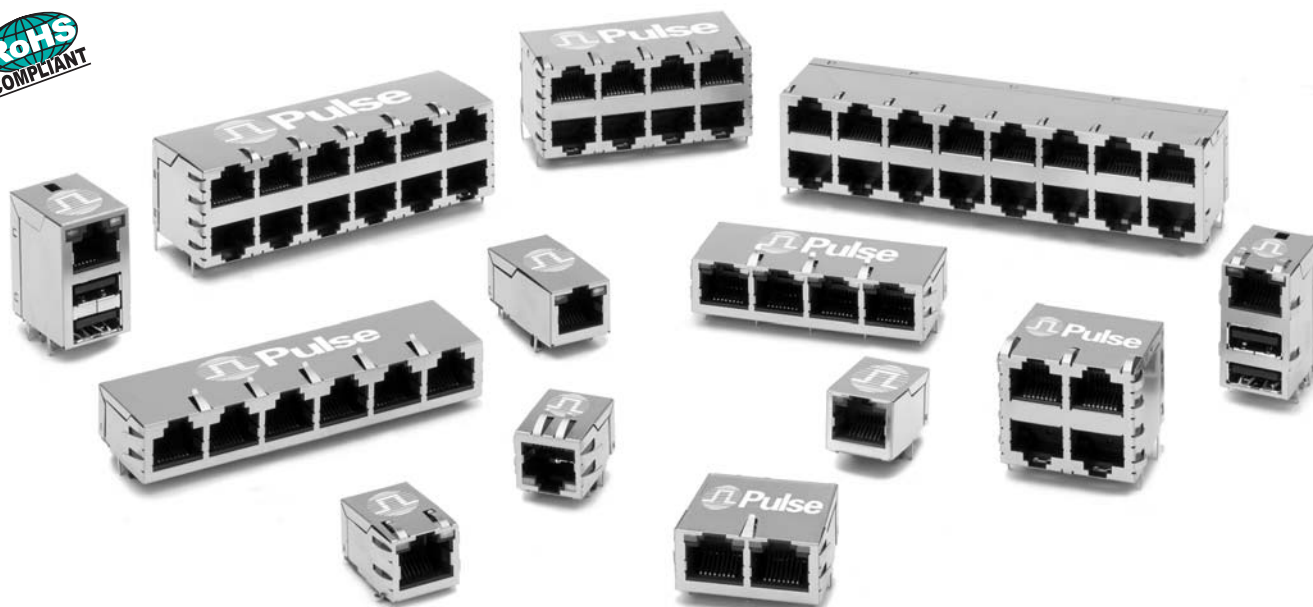
For the reader's convenience and to locate multiple platforms easily, view the IC Cross References that start on page 29.

DISCRETE SMT TRANSFORMER MODULES

Number of Ports	Single			Dual		Quad	
Data Rate	10Base-T	10/100TX	Gigabit	10/100TX	Gigabit	10Base-T	10/100TX
Data Sheet Number	E103 (low profile)	H303 (1:1 TR)	HC500 (1:1 TR)	H322 (1:1 TR)	HC500 (1:1 TR)	EC101 (var. TR)	H313 (1.41:1 TR)
	E112 (ext. temp.)	H304 (low profile)	H504 (low profile)	H327 (PoE)	H601 (PoE)		H316 (1:1 TR)
	E115 (1:1 TR)	H314 (var. TR)	H544 (1:1 TR)	H600 (1:1 TR)	H551 (quad/dual)		H321 (2:1 TR)
	EC100 (SMT, THT)	H315 (2:1 TR)	H546 (small footprint)				H327 (PoE)
		H325 (var. TR)	H601 (PoE)				H328 (1:1 TR)
		H326 (var. TR)	H551 (quad/dual)				H600 (1:1 TR)
		H327 (PoE)					
		H328 (1:1 TR)					
		H342 (1:1 TR)					
		H600 (1:1 TR)					

For common mode chokes, see data sheet number G002 at <http://www.pulseeng.com/products/datasheets/G002.pdf>.

LAN FILTERED CONNECTORS



PulseJack™ Filtered Connectors

Pulse offers a broad selection of PulseJack filtered connectors that integrate network magnetics with combinations of RJ45 and USB connectors. In addition to connectivity, these filtered connectors provide signal conditioning, signal isolation and EMI suppression. Designed to meet IEEE 802.3, the PulseJack connectors offer a complete family of single- and multi-port solutions in high-speed applications, including 10/100/1000BASE-T, PoE and other emerging applications. For RoHS compliant products, please refer to the individual data sheets for details.

NOTE: This catalog section serves as an overview to the LAN PulseJack filtered connectors. For detailed data sheets and a complete list of PulseJack filtered connectors, please go to this URL: <http://www.pulseeng.com/products/datasheets.aspx>.

For the readers convenience and to locate multiple platforms easily, view the IC Cross References starting on page 29.

RJ45 FILTERED CONNECTORS

Number of Ports	One Port					1 by 2, 4, 6, 8		2 by 2, 4, 6, 8		One RJ45/dual USB	
Locking Tab Up/Down	Down		Up			Down	Up	N/A		Up	
PCB Mounting Type	THT	SMT	THT	SMT		THT		THT		THT	
Data Rate	10/100TX	10/100TX	10/100TX	Gigabit	10/100TX	10/100TX	Gigabit	10/100TX	Gigabit	10/100TX	Gigabit
Data Sheet Number	J403 J414	J409	J402 J415 (PoE)	J411	J409	J404 J416 (PoE)	J410	J401	J405 J422	J408	J408

LAN GIGABIT IC CROSS REFERENCE



DISCRETE COMPONENTS & INTEGRATED MODULES										RJ45 & RJ45/USB PLATFORMS ^B								
		IC			Single ^A		Dual ^A		Quad ^A		1x1		1xN		2xN		RJ45/USB	
Manufacturer	Part Number	Ports	Notes	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	
Agere	ET1011, ET1012	1	PHY	H5007	HC500	H5012	HC500	H5400	H551	JK0 Series ^{2,c}	J411	JG0 Series ^{3,c}	J410	JC0 Series ^{4,c}	J405*	JW0 Series ^D	J408	
	ET1081	8	PHY	H5062	H601	H5020 ¹	HC500											
	ET1310	1	MAC/PHY	H5004	HC500	H5014	HC500											
	ET2005-40/50	5	Switch/PHY	H5077	H546	H6080	H601											
	ET2008-30/40/50	5	Switch/PHY	H6062	H601	H5200	H551											
	ET3028-50	28	Switch															
	ET3048-50	48	Switch															
	ET4028-50	28	Switch															
	ET4048-50	48	Switch															
	ET4100	24	Switch															
	ET4128-50	28+2	Switch 1G/10G															
	ET4148-50	48+2	Switch 1G/10G															
	ET4001/4101	48	Switch															
	ET5028-50	28	Switch															
	ET5048-50	48	Switch															
	ET5128-50	28+2	Switch 1G/10G															
	ET5148-50	48+2	Switch 1G/10G															
	GEP11-68			PHY														
Broadcom	BCM5400, BCM5401	1	PHY	H5007	HC500	H5012	HC500	H5401	H551	JK0 Series ^{2,c}	J411	JG0 Series ^{3,c}	J410	JC0 Series ^{4,c}	J405*	JW0 Series ^D	J408	
	BCM5411/21/21S	1	PHY	H5062	H601	H5020 ¹	HC500											
	BCM5460/61	1	PHY	H5004	HC500	H5014	HC500											
	BCM5701/02/03/04/05	1	MAC/PHY	H6062	H601	H6080	H601											
	BCM5707/21/51	1	MAC/PHY			H5201	H551											
	BCM5402	2	PHY															
	BCM5404/14/24	4	PHY															
	BCM5434/35/64/64S	4	PHY															
	BCM5478/5487/5488	8	PHY															
	BCM5345/46/47/48	24, 16, 5	Switch															
	BCM5384/85/88	8, 5, 4	Switch															
	BCM54980	8	PHY															
	82540/ 541/544/543	1	MAC/PHY	H5007	HC500	H5012	HC500	H5400	H551	JK0 Series ^{2,c}	J411	JG0 Series ^{3,c}	J410	JC0 Series ^{4,c}	J405*	JW0 Series ^D	J408	
82544/545/546/547	1	MAC/PHY	H5062	H601	H5020 ¹	HC500												
82570	1	MAC/PHY	H5077	H546	H5200	H551												
Intel																		
LSI Logic	L80600	1	PHY	H5007	HC500	H5012	HC500	H5401	H551	JK0 Series ^{2,c}	J411	JG0 Series ^{3,c}	J410	JC0 Series ^{4,c}	J405*	JW0 Series ^D	J408	
	L80601	1	PHY	H5062	H601	H5020 ¹	HC500											

^A **RX** turns ratio is 1:1, TX turns ratio is 1:1, unless otherwise specified. **D** **LED** colors (Green/Yellow, Green/Orange/Yellow)

^B **NOTE: Part** number **JC0-0019** is found on data sheet **J422**.

*NOTE: Part number JCO-0019 is found on data sheet J422.

1. Compact foot print dual magnetic cross reference
2. Single port THT tab-up connector cross reference
3. Multipoint 1b/N THT tab-up connector cross reference
4. Multipoint THT 2b/N connector cross reference
5. RJ45/USB single port THT tab-up connector cross reference

A. RX turns ratio is 1:1, TX turns ratio is 1:1, unless otherwise specified.

B. One part is identified in this cross reference. Multiple parts with different platforms can be found on the referenced data sheet.

C. For detailed information about this series, e-mail: prodinfo_lan@pulseeng.com or call Pulse and ask for LAN Applications

D. LED colors (Green/Yellow, Green-Orange/Yellow)

NOTE: Most Pulse products can be manufactured to comply with the RoHS (Restriction of Hazardous Substances) directive. These parts are identified by adding the suffix "NL" at the end of the part number.

DISCRETE COMPONENTS & INTEGRATED MODULES										RJ45 & RJ45/USB PLATFORMS ^B								
		IC			Single ^A		Dual ^A		Quad ^A		1x1		1xN		2xN		RJ45/USB	
Manufacturer	Part Number	Ports	Notes	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	
Marvell Semiconductor	88E1010/1011S	1	PHY	H5007	HC500	H5012	HC500	H5400	H551	JK0 Series ^{2 c}	J411	JG0 Series ^{3,c}	J410	JC0 Series ^{4,c}	J405*	JW0 Series ^D	J408	
	88E1111/1112	1	PHY	H5062	H601	H5020 ¹	HC500											
	88E1040/1040S/1041	4	PHY	H5077	H546	H6080	H601											
	88E1041S/1042/1042S	4	PHY	H6062	H601	H5200	H551											
	88E1141/1145/1149	8	PHY															
	88E8000/05/06	8	MAC/PHY															
	88E6045	2	PHY															
	88E6122	6	PHY															
88E8022/86/50/62	8	MAC/PHY																
Micrel	KS9020	1	MAC/PHY	H5007	HC500	H5012	HC500	H5401	H551	JK0 Series ^{2 c}	J411	JG0 Series ^{3,c}	J410	JC0 Series ^{4,c}	J405*	JW0 Series ^D	J408	
				H5062	H601	H5020 ¹	HC500											
Mysticom	MY1001	1	PHY	H5007	HC500	H5012	HC500	H5401	H551	JK0 Series ^{2 c}	J411	JG0 Series ^{3,c}	J410	JC0 Series ^{4,c}	J405*	JW0 Series ^D	J408	
				H5062	H601	H5020 ¹	HC500											
National Semiconductor	DP83865	1	PHY	H5007	HC500	H5012	HC500	H5400	H551	JK0 Series ^{2 c}	J411	JG0 Series ^{3,c}	J410	JC0 Series ^{4,c}	J405*	JW0 Series ^D	J408	
	DP83864	4	PHY	H5062	H601	H6080	H601											
			PHY	H6062	H601	H5200	H551											
Realtek	RTL8211/12	1	PHY	H5007	HC500	H5012	HC500	H5401	H551	JK0 Series ^{2 c}	J411	JG0 Series ^{3,c}	J410	JC0 Series ^{4,c}	J405*	JW0 Series ^D	J408	
	RTL8169	1	MAC/PHY	H5062	H601	H5020 ¹	H503											
	RTL8100E/01E/10/11B					H5201	H551											
Vitesse Semiconductor	VS C8201/8211	1	PHY	H5007	HC500	H5012	HC500	H5400	H551	JK0 Series ^{2 c}	J411	JG0 Series ^{3,c}	J410	JC0 Series ^{4,c}	J405*	JW0 Series ^D	J408	
	VS C8221/8601/8641	1	PHY	H5062	H601	H5020 ¹	HC500											
	VS C8204/24/34/44	4	PHY	H5084	H544	H6080	H601											
	VS C8558/8538	8	PHY	H6062	H601	H5012	HC500											
	VS C7380/7384	8, 12	GbE switch	H5008	HC500	H5200	H551											
	VS C7388/7398	8	PHY	H5014	HC500													
	VS C7385/7395/7396	5	PHY															
	VS C7389/7391	16	PHY															
	VS C7390	24	PHY															
	VS C7301/7303	16, 24	GbE switch															

*NOTE: Part number **JC0-0019** is on data sheet **J422**.

1. Compact foot print dual magnetic cross reference
2. Single port THT tab-up connector cross reference
3. Multipoint 1bN THT tab-up connector cross reference
4. Multipoint THT 2bN connector cross reference
5. RJ45/USB single port THT tab-up connector cross reference

A. RX turns ratio is 1:1, TX turns ratio is 1:1, unless otherwise specified.

B. One part is identified in this cross reference. Multiple parts with different platforms can be found on the referenced data sheet.

C. For detailed information about this series, e-mail:

prodinfo_lan@pulseeng.com or call Pulse and ask for LAN

Applications at 858-674-8100

D. LED colors (Green/Yellow, Green-Orange/Yellow)

NOTE: Most Pulse products can be manufactured to comply with the RoHS (Restriction of Hazardous Substances) directive. These parts are identified by adding the suffix "NL" at the end of the part number.

SMT - Surface Mount Package THT - Through Hole Package

LAN 10/100BASE-TX IC CROSS REFERENCE



RJ45 & RJ45/USB PLATFORMS ^B																	
DISCRETE COMPONENTS																	
IC Manu- facturer	IC		Turns Ratio ^A	Single		Dual		Quad		1x1		1xN		2xN	RJ45/USB ⁷		
	Part Number	Ports		Note	TX	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet			Part Number	Data Sheet
Agere	ET901	1	PHY	1:1	H1102	H325	H1270	H322		J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	
	ET908	8	PHY	1:1	H1260	H600	HX1294	H322		J1006F21 ³	J402	J8064D628 ⁶	J404			JY0-0016 ^D	
					H1112	H326	H2005A ²	H327		JV006I21 ⁴	J409						
					H1012	H325				J3006G21D ⁵	J409						
					HX1148	H303				J0C-0003 ⁴	J409						
					HX1188 ¹	H325				J0018D21 ³	J403						
					H2019 ²	H327				J3018G21D ⁵	J409						
					H0026	H304											
					PE-69012 ^E	H304											
AMD	AM79C874/C875	1	PHY	1:1	H1102	H325	H1270	H322		J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	
	AM79C971/972/C973/ AM79C975/C976/C977	1 1	PHY PHY	1:1 1:1	H1260 H1112	H600 H326	HX1294 H2005A ²	H322 H327		J1006F21 ³ JV006I21 ⁴	J402 J409	J8064D628A ⁶	J404			JY0-0016 ^D	
					H1012	H325				J3006G21D ⁵	J409						
					HX1148	H303				J0C-0003 ⁴	J409						
					HX1188 ¹	H325				J0018D21 ³	J403						
					H2019 ²	H327				J3018G21D ⁵	J409						
					H0026	H304											
					PE-69012 ^E	H304											
	AM79C874	1	PHY	1:1:1:1:4	H1081	H314											
Broadcom	AC101, AC101L	1	PHY	1:1	H1102	H325	H1270	H322	H1164 ²	H328	J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D
	AC131		PHY	1:1	H1012	H303	HX1294	H322	H1164 ²	H328							J408
	BCM5241	1	PHY	1:1	HX1148	H303	H2005A ²	H327	H1259	H600							
	BCM5220/ 5221	1	PHY	1:1	H1012	H303	HX1294	H322			J1006F21 ³	J402	J8064D628A ⁶	J404			J408
	BCM5222	2	PHY	1:1	HX1148	H303	H2005A ²	H327			JV006I21 ⁴	J409					
	BCM1100/1101/1112/1190	2	VoIP/PoE	1:1	H2019 ²	H327	H2009 ²	H327			J3006G21D ⁵	J409					
	BCM1115	1	MAC/PHY	1:1	PE-69012 ^E	H304					J0C-0003 ⁴	J409					
	BCM6345/6348	1	MAC/PHY	1:1	HX1188 ¹	H325					J0011D21B ³	J403					
	BCM5350/5380	8	Switch	1:1	H1260	H600					JV011I21 ⁴	J409					
	AC104, BCM5208R	4	PHY	1:1	H1112	H600	H2009 ²	H327	H1164 ²	H328	J00-0014 ³	J414	J8064E64 ⁶	J404	J2045H3A ^C	J401	
	AC205/206	5	PHY	1:1	H1112	H326			H1259	H600	J1012F21K ³	J402	J8064E66 ⁶	J404	J2045H3B ^C	J401	
	BCM5315/5325(M)/5365	5	MAC/PHY	1:1	HX1188 ¹	H325			HX1234 ²	H328			J8064E68 ⁷	J404	J2045H3C ^C	J401	
	BCM5226	6	PHY	1:1	H1102	H325			H2017 ²	H327			J8064D648A ⁶	J404			
	BCM5248	8	PHY	1:1													
	AC207/208	8	PHY	1:1	H2019 ²	H327							J8064D668A ⁶	J404			
	BCM5228/6238/5248	8	PHY	1:1									J8064D688A ⁶	J404			
BCM5318/5338	8	MAC/PHY	1:1														
BCM5384	4	Switch	1:1	H0042 ²	H304												
BCM5721	1	PHY	1:1														
BCM5347/5348	48	PHY	1:1														

1. **Extended** temperature single port discrete magnetic cross reference

2. **PoE / VoIP** single port discrete magnetic cross reference

3. **Single** port THT tab-up/down connector cross reference

4. **Single** port SMT tab-up/down connector cross reference

5. **Single** port SMT tab-up connector cross reference

6. **Multipoint** 1byN THT tab-down connector cross reference

7. **RJ45/USB** single port THT tab-up connector cross reference

A. RX turns ratio is 1:1, TX turns ratio is 1:1, unless otherwise specified.

B. One part is identified in this cross reference. Multiple parts with different

platforms can be found on the referenced data sheet.

C. Multipoint 2byN THT connector cross reference (A=2x4, B=2x6, C=2x8)

D. LED colors (Green/Yellow, Green-Orange/Yellow)

E. Low profile (PCMCIA)

NOTE: Most Pulse products can be manufactured to comply with the RoHS (Restriction of Hazardous Substances) directive. These parts are identified by adding the suffix "NL" at the end of the part number.

SMT - Surface Mount Package THT - Through Hole Package

RJ45 & RJ45/USB PLATFORMS^B

DISCRETE COMPONENTS

IC Manufacturer	IC			Turns Ratio ^A	Single		Dual		Quad		1x1		1xN		2xN		RJ45/USB ⁷	
	Part Number	Ports	Note		Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet
Cirrus Logic	CS8952	1	PHY	H1102	H325	H1270	H322	H1270	H322	H316	J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	CS8952T	1	PHY	H1260	H600	H2005A ²	H327	H2009 ²	H327		J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
Davicom	DM9161	1	PHY	H1012	H325	H1270	H322	H1270	H322	H1036	J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	DM9102A	1	MAC/PHY	H1265	H600						J3006G21D ⁵	J409	J8064D628A ⁶	J404				
	DM9601	1	MAC/PHY	H1102	H325						J0C-0003 ⁴	J409	J8064D628A ⁶	J416				
	DM9301/9331	1	PHY	HX1188 ¹	H325													
				H2019 ²	H327													
				HX2019 ²	H327													
				PE-69012 ^E	H304													
IC+	3097-F, 3299A	1	PHY	H1102	H325	H1270	H322	H1270	H322	H1164 ²	J0006D21 ³	J403	J8064E62 ⁶	J404	J2045H3A ^C	J401	JW0-0009 ^D	J408
	IP100A	1	PHY	H1260	H600	H2005A ²	H327	H2009 ²	H327	H1259	J1006F21 ³	J402	J8064D628A ⁶	J404	J2045H3B ^C	J401	JY0-0016 ^D	J408
	IP108	8	PHY	HX1188 ¹	H325	H2009 ²	H327	H2009 ²	H327	HX1234 ¹	JV006I21 ⁴	J409	J8064D628A ⁶	J404	J2045H3C ^C	J401		
	IP1726	26	PHY	HX2019 ²	H327					H2017 ²	J3006G21D ⁵	J409	J8064D648A ⁶	J404				
	IP101	1	PHY	PE-69012 ^E	H304						J0C-0003 ⁴	J409						
ICS	ICS1890/1891	1	PHY	H1102	H325	H1270	H322	H1270	H322		J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	ICS1893	1	PHY	H1260	H600	H2005A ²	H327	H2009 ²	H327		J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
				HX1188 ¹	H325	H2009 ²	H327	H2009 ²	H327		JV006I21 ⁴	J409						
				H1012	H303						J3006G21D ⁵	J409						
				HX2019 ²	H327						J0C-0003 ⁴	J409						
				PE-69012 ^E	H304													
Infineon (AMD/Tek)	PSB21553	2	PoE/PHY	H1102	H325	H2006A ²	H327				J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	ADM8511/8513/9511	1	PHY	H1260	H600	H2005A ²	H327	H1270	H322		J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
	ADM9513, AN983B	1	PHY	HX1188 ¹	H325	H2009 ²	H327	H2009 ²	H327		JV006I21 ⁴	J409						
	AN985B/L autoMDX	1	PHY	H2019 ²	H327	HX1294	H322				J3006G21D ⁵	J409	J8064D648A ⁶	J404	J2045H3A ^C	J401		
											J0C-0003 ⁴	J409	J8064E64 ⁶	J404	J2045H3A ^C	J401		
													J8064E68 ⁶	J404	J2045H3B ^C	J401		
													J8064D648A ⁶	J404	J2045H3C ^C	J401		
													J8064D688A ⁶	J404				
Intel	82551/2551QM/551ER	1	MAC/PHY	H1102	H325	H1270	H322	H1270	H322	H1164 ²	J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	82562/562EZ/550	1	MAC/PHY	H1260	H600	H2005A ²	H327	H2009 ²	H327	H1259	J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
	82559/559ER	1	MAC/PHY	HX1188 ¹	H325	H2009 ²	H327	H2009 ²	H327	HX1234 ¹	JV006I21 ⁴	J409						
	LX1970A/9711(ALC)/972A	1	PHY	H1112	H326						J3006G21D ⁵	J409						
	LX1973	2	PHY	H2019 ²	H327						J0C-0003 ⁴	J409						
	LX1972	1	PHY	PE-69012 ^E	H304						J00-0014 ³	J414						

1. Extended temperature single port discrete magnetic cross reference

2. PoE / VoIP single port discrete magnetic cross reference

3. Single port THT tab-up/down connector cross reference

4. Single port SMT tab-up/down connector cross reference

5. Single port SMT tab-up connector cross reference

6. Multipoint 1b/N THT tab-down connector cross reference

7. RJ45/USB single port THT tab-up connector cross reference

A. TRX turns ratio is 1:1, TX turns ratio is 1:1, unless otherwise specified.

B. One part is identified in this cross reference. Multiple parts with different

platforms can be found on the referenced data sheet.

C. Multipoint 1b/N THT connector cross reference (A=2x4, B=2x6, C=2x8)

D. LED colors (Green/Yellow, Green-Orange/Yellow)

E. Low profile (PCMCIA)

NOTE: Most Pulse products can be manufactured to comply with the RoHS (Restriction of Hazardous Substances) directive. These parts are identified by adding the suffix "NL" at the end of the part number.

SMT - Surface Mount Package **THT** - Through Hole Package

LAN 10/100BASE-TX IC CROSS REFERENCE (continued)



DISCRETE COMPONENTS										RJ45 & RJ45/USB PLATFORMS ^B									
IC Manufacturer	IC			Turns Ratio ^A	TX	Single		Dual		Quad		1x1		1xN		2xN		RJ45/USB ⁷	
	Part Number	Ports	Note			Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet
LSI	L80223	1	PHY	1:1		H1102	H325	H1270	H322			J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	L80225	1	PHY	1:1		H1260	H600	H2005A ²	H327			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
	L80227	1	PHY	1:1		HX1188 ¹	H325	H2009 ²	H327			JV006I21 ⁴	J409						
						H2019 ²	H327					J3006G21D ⁵	J409	J0C-0003 ⁴	J409				
Marvell						H1012	H303												
						PE-69012 ^E	H304												
	88E6021	3	PHY	1:1		H1102	H325	H1270	H322	H1164 ²	H328	J0006D21 ³	J403	J8064E64 ⁶	J404	J2045H3A C	J401	JW0-0009 ^D	J408
	88E6051	5	PHY	1:1		H1260	H600	H2005A ²	H327	H1259	H600	J1006F21 ³	J402	J8064E68 ⁶	J404	J2045H3B C	J401	JY0-0016 ^D	J408
MICREL	88E6060/88E6218	5/6	PHY	1:1		HX1188 ¹	H325	H2009 ²	H327	HX1234 ¹	H328	JV006I21 ⁴	J409	J8064D648A ⁶	J404	J2045H3C C	J401		
	88E6052, 88E6063	5/6/7	PHY	1:1		H2019 ²	H327			H2017 ²	H327	J3006G21D ⁵	J409	J8064D688A ⁶	J404				
	88E3081/3082/3083	8	PHY	1:1		PE-69012 ^E	H304					J0C-0003 ⁴	J409						
	88E6083	10	Switch	1:1		H1183	H325					JK0654218Z	J411						
MICREL	88E6095	8	Switch	1:1															
	KS8721B/21BL/37	1	PHY	1:1		H1102	H325	H1270	H322			J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	KS8993/8993M/8993F	3	MAC/PHY	1:1		H1260	H600	H2005A ²	H327			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
	KS8737	1	PHY	1:1		HX1188 ¹	H325	H2009 ²	H327	HX1234 ¹	H328	JV006I21 ⁴	J409						
MicroLinear						H2019 ²	H327	H2006A ²	H327	H2017 ²	H327	J3006G21D ⁵	J409						
						PE-69012 ^E	H304					J0C-0003 ⁴	J409						
	KS8695P	5	PHY	1:1		H1102	H325	H1270	H322	H1164 ²	H328	J0006D21 ³	J403	J8064E64 ⁶	J404	J2045H3A C	J401	JW0-0009 ^D	J408
	KS8995/95M/95MA/95E	5	MAC/PHY	1:1		H1260	H600	H2005A ²	H327	H1259	H600	J1006F21 ³	J402	J8064E68 ⁶	J404	J2045H3B C	J401	JY0-0016 ^D	J408
Myson	KS8995X	5	MAC/PHY	1:1		HX1188 ¹	H325	H2009 ²	H327	HX1234 ¹	H328	JV006I21 ⁴	J409	J8064D648A ⁶	J404	J2045H3C C	J401		
	KS8997/KS8998	8	MAC/PHY	1:1		H2019 ²	H327			H2017 ²	H327	J3006G21D ⁵	J409	J8064D688A ⁶	J404				
	KS8999	9	MAC/PHY	1:1		PE-69012 ^E	H304					J0C-0003 ⁴	J409						
	ML6652	1	AutoMDX	1:1		H1102	H325	H1270	H322			J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
Myson						H1260	H600	H2005A ²	H327			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
						HX1188 ¹	H325	H2009 ²	H327			JV006I21 ⁴	J409						
						H2019 ²	H327					J3006G21D ⁵	J409						
						PE-69012 ^E	H304					J0C-0003 ⁴	J409						
Mysticom																			
	MystiPHY110	1	PHY	1:1		H1102	H325	H1270	H322	H1164 ²	H328	J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
						H1260	H600	H2005A ²	H327	H1259	H600	J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
						HX1188 ¹	H325	H2009 ²	H327	HX1234 ¹	H328	JV006I21 ⁴	J409						
Mysticom						H2019 ²	H327			H2017 ²	H327	J3006G21D ⁵	J409						
						PE-69012 ^E	H304					J0C-0003 ⁴	J409						

1. **Extended** temperature single port discrete magnetic cross reference

2. **PoE / VoIP** single port discrete magnetic cross reference

3. **Single** port THT tab-up/down connector cross reference

4. **Single** port SMT tab-down connector cross reference

5. **Single** port SMT tab-up connector cross reference

6. **Multipoint** 1byN THT tab-down connector cross reference

7. **RJ45/USB** single port THT tab-up connector cross reference

A. RX turns ratio is 1:1, TX turns ratio is 1:1, unless otherwise specified.

B. One part is identified in this cross reference. Multiple parts with different platforms can be found on the referenced data sheet.

C. Multipoint 2byN THT connector cross reference (A=2x4, B=2x6, C=2x8)

D. LED colors (Green/Yellow, Green-Orange/Yellow)

E. Low profile (PCMCIA)

NOTE: Most Pulse products can be manufactured to comply with the RoHS (Restriction of Hazardous Substances) directive. These parts are identified by adding the suffix "NL" at the end of the part number.

SMT - Surface Mount Package THT - Through Hole Package

RJ45 & RJ45/USB PLATFORMS^B

DISCRETE COMPONENTS

IC Manu- facturer	IC		Turns Ratio ^A	Single		Dual		Quad		1x1		1xN		2xN		RJ45/USB ⁷	
	Part Number	Ports		Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet
National Semiconductor	DP83847	1	1:1	H1102	H325	H1270	H322	H1164 ²	H328	J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	DP83848	1	1:1	H1012	H303	HX1294	H322	H1036L	H316	J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
	DP83816 (macphyter II)	1	1:1			HX1148	H303	H2005A ²	H327	H1259	H600	J1006D21 ⁶	J402				
Realtek				H1260	H600	H2009 ²	H327	HX1234 ¹	H328	JV006I21 ⁴	J409						
				HX1188 ¹	H325			H2017 ²	H327	JV006I21 ⁴	J409						
				H2019 ²	H325					J3006G21D ⁵	J409						
				PE-69012 ^E	H304					J3006G21D ⁵	J409						
				H1112	H326					J0C-0003 ⁴	J409						
	RTL8100C/101L/100B	1	1:1	H1102	H325	H1270	H322			J0026D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	RTL8139/B/C/CL	1	1:1	H1260	H600	H2005A ²	H327			J0006D21 ³	J403	J8064D628A ⁶	J404			JY0-0016 ^D	J408
	RTL8150	1	1:1	H1251	H600	H2009 ²	H327			J1006F21 ³	J402						
	RTL8201C/L8201BL	1	1:1	H1281	H600					J3006G21D ⁵	J409						
	RTL8019AS	1	1:1	HX1188 ¹	H325					J0C-0003 ⁴	J409						
SIS	RTL8181/86	1	1:1	H2019 ²	H327					J0026D01B ³	J403						
	RTL8208	8	PHY	PE-69012 ^E	H304					J1012F01C ³	J402						
	RTL8308	8	Controller	H0019	H304					J3011G21D ⁵	J409						
	RTL8309	9	Controller	H1112	H326					J1011F01P ³	J402						
										J0011D21 ³	J403						
SMSC	RTL8208	8	PHY	H1102	H325	H1260	H600	H1164 ²	H328	J0006D21 ³	J403	J8064E64 ⁶	J404	J2045H3A ^C	J401	JW0-0009 ^D	J408
	RTL8316	16	Controller	H1260	H600	H2005A ²	H327	H1259	H600	J1006F21 ³	J402	J8064E68 ⁶	J404	J2045H3B ^C	J401	JY0-0016 ^D	J408
						H2009 ²	H327	HX1234 ¹	H328			J8064D648A ⁶	J404	J2045H3C ^C	J401		
	SIS900	1	MAC/PHY	H1102	H325	H1270	H322	H2017 ²	H327	J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
				H1260	H600	H2005A ²	H327			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
SMSC				H1260	H600	H2009 ²	H327			JV006I21 ⁴	J409						
				H2019 ²	H327					J3006G21D ⁵	J409						
				PE-69012 ^E	H304					J0C-0003 ⁴	J409						
	LAN83C183/185	1	PHY	H1102	H325	H1270	H322			J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
SMSC	LAN91C100FD/110	1	Controller	H1260	H600	H2005A ²	H327			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
	LAN91C36, LAN91C96I	1	Controller	HX1188 ¹	H325	H2009 ²	H327			JV006I21 ⁴	J409						
	LAN91C111	1	PHY	H2019 ²	H327					J3006G21D ⁵	J409						
SMSC				PE-69012 ^E	H304					J0C-0003 ⁴	J409						
	LAN9115									J0026D21 ³	J403						

1. **Extended** temperature single port discrete magnetic cross reference2. **PoE / VoIP** single port discrete magnetic cross reference3. **Single** port THT tab-up/down connector cross reference4. **Single** port SMT tab-up/down connector cross reference5. **Single** port SMT tab-up connector cross reference6. **Multipoint** 1byN THT tab-down connector cross reference7. **RJ45/USB** single port THT tab-up connector cross reference**A.** RX turns ratio is 1:1, TX turns ratio is 1:1, unless otherwise specified.**B.** One part is identified in this cross reference. Multiple parts with different platforms can be found on the referenced data sheet.**C.** **Multipoint** 2byN THT connector cross reference (A=2x4, B=2x6, C=2x8)**D.** LED colors (Green/Yellow, Green-Orange/Yellow)**E.** Low profile (PCMCIA)**NOTE:** Most Pulse products can be manufactured to comply with the RoHS (Restriction of Hazardous Substances) directive. These parts are identified by adding the suffix "NL" at the end of the part number.

SMT - Surface Mount Package THT - Through Hole Package

DISCRETE COMPONENTS										RJ45 & RJ45/USB PLATFORMS ^B								
IC Manufacturer	IC			Turns Ratio ^A	Single		Dual		Quad		1x1		1xN		2xN		RJ45/USB ⁷	
	Part Number	Ports	Note		Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet
Teridian (TDK)	78P2123	1	PHY	1:1	H1102	H325	H1270	H322			J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	78Q2123	1	PHY	1:1	H1260	H600	H2005A ²	H327			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
					HX1188 ¹	H325	H2009 ²	H327			JV006I21 ⁴	J409						
					H2019 ²	H327					J3006G21D ⁵	J409						
					PE-69012 ^E	H304					J0C-0003 ⁴	J409						
Texas Instruments	TPS2370/2375	1	MAC/PHY	1:1	H1102	H325	H1270	H322			J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
					H1260	H600	H2005A ²	H327			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
					HX1188 ¹	H325	H2009 ²	H327			JV006I21 ⁴	J409						
					H2019 ²	H327					J3006G21D ⁵	J409						
					PE-69012 ^E	H304					J0C-0003 ⁴	J409						
Zarlink (Plessey/Mitel)	MT933	1	PHY	1:1	H1102	H325	H1270	H322	H1164 ²	H328	J0006D21 ³	J403	J8064E64 ⁶	J404	J2045H3A ^C	J401	JW0-0009 ^D	J408
					H1260	H600	H2005A ²	H327	H1259	H600	J1006F21 ³	J402	J8064E68 ⁶	J404	J2045H3B ^C	J401	JY0-0016 ^D	J408
					HX1188 ¹	H325	H2009 ²	H327	HX1234 ¹	H328	JV006I21 ⁴	J409	J8064D648A ⁶	J404	J2045H3C ^C	J401		
					H2019 ²	H327			H2017 ²	H327	J3006G21D ⁵	J409	J8064D688A ⁶	J404				
					PE-69012 ^E	H304					J0C-0003 ⁴	J409						
NOTE: Most Pulse products can be manufactured to comply with the RoHS (Restriction of Hazardous Substances) directive. These parts are identified by adding the suffix "NI," at the end of the part number.																		
1. Extended temperature single port discrete magnetic cross reference																		
2. PoE / VoIP single port discrete magnetic cross reference																		
3. Single port THT tab-up/down connector cross reference																		
4. Single port SMT tab-down connector cross reference																		
5. Single port SMT tab-up connector cross reference																		
6. Multiport 1b/N THT tab-down connector cross reference																		
7. RJ45/USB single port THT tab-up connector cross reference																		
THT - Through Hole Package SMT - Surface Mount Package																		

LAN 10BASE-T IC CROSS REFERENCE (continued)



DISCRETE COMPONENTS

IC Manufacturer	IC Part No.	Pulse Part No.	Ports Supported	Configuration ¹		Turns Ratio ²		Package		Data Sheet
				TX	RX	TX	RX	Style ³	L/W/H (in)*	
AMD	AM79C90, AM79C98, AM79C100, AM79C940, AM79C960, AM79C961, AM79C965, AM79C970, AM79C971, AM79C981, AM79C982, AM79C983, AM79C961 (PC net-ISA II)	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020
		E2003	Single Port	R, F, T, C	R, F, T, C	1CT:1	1CT:1	SMT	1.000 / .500 / .230	E115
		J00-0025	Single	T, C	T, C	1CT:2.5	1CT:1	1x1 ICM	21.59 / 16.26 / 13.84 ⁴	J414
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012
		PE-68068	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.600 / .650 / .084	E100
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
	AM79C984, AM79C985, AM79C988, AM79C989	ST4190T	Quad Port	T, C	T, C	1CT:1CT	1:1	SMT	1.112 / .625 / .230	ST4190T
		PE-68049L	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	EC101
		PE-68050L	Quad Port	T	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	EC101
		E5017	Single Port	T, C	T	1CT:1CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
Cirrus Logic	CS8900, CS8920	E2003	Single Port	R, F, T, C	R, F, T, C	1CT:1	1CT:1	SMT	1.000 / .500 / .230	E115
		J00-0025	Single	T, C	T, C	1CT:2.5	1CT:1	1x1 ICM	21.59 / 16.26 / 13.84 ⁴	J414
		PE-68062L	Quad Port	T, C	T	1CT:1.414CT	1:1	SMT	1.125 / .640 / .230	EC101
		PE-68065L	Quad Port	T	T	1CT:1.414CT	1:1	SMT	1.125 / .640 / .230	EC101
		23Z356SM	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.450 / .360 / .215	EC100
		ST7010T	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.457 / .375 / .230	ST7010T
		PE-65745	Single Port	T	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
		E2003	Single Port	R, F, T, C	R, F, T, C	1CT:1	1CT:1	SMT	1.000 / .500 / .230	E115
		J00-0025	Single	T, C	T, C	1CT:2.5	1CT:1	1x1 ICM	21.59 / 16.26 / 13.84 ⁴	J414
	CS8900A-CQ3	E2023	Single Port	T, C	T, C	1CT:2.5CT	1CT:1CT	SMT	.500 / .375 / .230	EC100
Davicom		E4005	Single Port	T, C	T, C	1CT:2.5CT	1CT:1CT	SMT	.500 / .375 / .230	EC100
		J00-0025	Single	T, C	T, C	1CT:2.5	1CT:1	1x1 ICM	21.59 / 16.26 / 13.84 ⁴	J414
	CS8900A-RQ3	EX2024	Single Port	T, C	T, C	1CT:2.5CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
	DM9008	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020
	DM9009	PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104
	DM9081	SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012
	DM9095	PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
Fujitsu	MB86967	PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
		PE-68030	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
	MB86951, MB86961, MB86964, MB86965B	23Z356SM	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.450 / .360 / .215	EC100
		PE-68048	Single Port	T, C	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
		PE-65745	Single Port	T	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
Intel (Level One)	LXT901A, LXT907A	23Z356SM	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.450 / .360 / .215	EC100
		PE-68048	Single Port	T, C	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
		PE-65745	Single Port	T	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
	LXT905, LXT908	23Z467SM	Single Port	T, C	T, C	1CT:2CT	1CT:1CT	SMT	.450 / .360 / .215	EC100
		ST4202T	Single Port	T, C	T, C	1CT:2CT	1CT:1CT	SMT	.477 / .360 / .223	ST4202T
	LXT902	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
	LXT914, LXT915, LXT916, LXT917, LXT918, LXT944	PE-68062L	Quad Port	T, C	T	1CT:1.414CT	1:1	SMT	1.125 / .640 / .230	EC101
		PE-68065L	Quad Port	T	T	1CT:1.414CT	1:1	SMT	1.125 / .640 / .230	EC101
		PE-68810	Quad Port	T	—	—	1:1 (4X)	SMT	.500 / .370 / .200	EC100
		PE-68820	Quad Port	T	—	1:1.414 (4X)	—	SMT	.500 / .370 / .200	EC100

1. Configuration: T = Transformer, F = Low Pass Filter, C = Choke, R = Pre-distortion Resistors

(continued on next page)

2. Turns Ratio is referenced chip side to media side.

3. Package Styles: DIL (Dual-In-Line Package), SIL (Single-In-Line Package), SMT (Surface Mount Package), PCMCIA (Ultra Low Profile-SMT)

4. Millimeters

NOTE: ICs are in groups. Each group works with all adjacent Pulse parts.

*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

LAN 10BASE-T IC CROSS REFERENCE (continued)



DISCRETE COMPONENTS										
IC Manufacturer	IC Part No.	Pulse Part No.	Ports Supported	Configuration ¹		Turns Ratio ²		Package		Data Sheet
				TX	RX	TX	RX	Style ³	L/W/H (in)*	
LSI	L64381 80C24	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020
		E2004	Single Port	R, F, T, C	R, F, T, C	1CT:1	1CT:1	SMT	1.000 / .500 / .230	E115
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
Lucent	T7213, T7241A	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
MicroLinear	ML2652, ML2653, ML4652, ML4658	23Z435	Single Port	T	T	2CT:1CT	1CT:1CT	DIL	.800 / .340 / .250	EC100
		23Z435SM	Single Port	T	T	2CT:1CT	1CT:1CT	SMT	.450 / .360 / .215	EC100
		PE-68052	Single Port	T, C	T	2CT:1CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
Motorola	MC68160	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020
		E2007	Single Port	R, F, T, C	R, F, T, C	1CT:1	1CT:1	SMT	1.000 / .500 / .230	E115
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
National Semiconductor	DP83901A DP83902A, DP83902 DP83905, DP83934	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1020
		E2001	Single Port	R, F, T, C	R, F, T, C	1CT:1	1CT:1	SMT	1.000 / .500 / .230	E115
		PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104
		SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000 / .400 / .338	FL1012
		PE-68056	Single Port	F, T, C	F, T	1CT:1	1CT:1	SMT	.930 / .510 / .230	E115
		PE-68032	Single Port	F, T, C	F, T	1CT:1	1CT:1	PCMCIA	.800 / .675 / .094	E103
	DP83907, DP83924A	E5002	Quad Port	T, C	T, C	1CT:2CT	1:1	SMT	1.125 / .640 / .230	E116
		23Z467SM	Single Port	T, C	T, C	1CT:2CT	1CT:1CT	SMT	.450 / .360 / .215	EC100
Realtek	RTL8301 RTL8019AS RTL8029AS RTL8301	ST4202T	Single Port	T, C	T, C	1CT:2CT	1CT:1CT	SMT	.447 / .360 / .223	ST4202T
		PE-68049L	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	EC101
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		PE-68049L	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	EC101
SMSC	LAN91C46 LAN91C91 LAN91C96	PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		EX2001	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930/510/230	E112
		PE-68056	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115
		EX2001	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930/510/230	E112
		E2009	Single Port	F, T, C	F, T	1CT:1.414	1CT:1	SMT	1.000 / .500 / .230	E115
	LAN91C111	EX2001	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930/510/230	E112
Texas Instruments	TNETE100A	23Z356SM	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.450 / .360 / .215	EC100
		PE-65745	Single Port	T	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
		PE-68048	Single Port	T, C	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
	TNETE2004	PE-68062L	Quad Port	T, C	T	1CT:1.414CT	1:1	SMT	1.125 / .640 / .230	EC101
		PE-68065L	Quad Port	T	T	1CT:1.414CT	1:1	SMT	1.125 / .640 / .230	EC101
		23Z356SM	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.450 / .360 / .215	EC100
		PE-65745	Single Port	T	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
		PE-68048	Single Port	T, C	T	1CT:1.414CT	1CT:1CT	SMT	.500 / .370 / .200	EC100
	TNETE2008	PE-68049L	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	EC101
		E5008	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125 / .640 / .230	E117

1. Configuration: T = Transformer, F = Low Pass Filter, C = Choke, R = Pre-distortion Resistors

2. Turns Ratio is referenced chip side to media side.

3. Package Styles: DIL (Dual-In-Line Package), SIL (Single-In-Line Package), SMT (Surface Mount Package), PCMCIA (Ultra Low Profile-SMT)

NOTE: ICs are in groups. Each group works with all adjacent Pulse parts.

*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

LAN ATM IC CROSS REFERENCE

ATM NETWORK COMPONENTS

Speed	IC Manufacturer/ IC Part Number	Pulse Part No.	Ports Supported	Configuration ¹		Turns Ratio ²		Package		Data Sheet
				TX	RX	TX	RX	Style ³	L/W/H (in)*	
155 ATM	National / 83223	PE-68517L	Single Port	C, T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.000 / .510 / .370	H303
	MicroLinear / ML6674	PE-68515L	Single Port	T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.000 / .510 / .370	H303
	PMC Sierra / PM5350	H1019	Single Port	C, T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.000 / .510 / .230	H303
		H1012	Single Port	T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.000 / .510 / .230	H303
		H1027	Dual Port	C, T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.125 / .640 / .230	H322
		H1028	Dual Port	T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.125 / .640 / .230	H322
		H1049	Dual Port	T, C, S	C, T	1CT:1CT	1CT:1CT	SMT	1.125 / .640 / .230	H322
		H1036L	Quad Port	T, C	C, T	1CT:1	1CT:1CT	SMT	1.125 / .640 / .230	H316
		H1044	Quad Port	T, C	C, T	1CT:1	1CT:1CT	SMT	1.125 / .640 / .230	H316

1. **Configuration:** **T** = Transformer, **C** = Choke, **S** = Shunt Inductor

2. **Turns Ratio** is referenced chip side to media side.

3. **Package Style:** **SMT**– Surface Mount Package

NOTE: ICs are in groups. Each group works with all adjacent Pulse parts.

***L/W/H** is measured on surface mount parts tip to tip (height includes wash area).