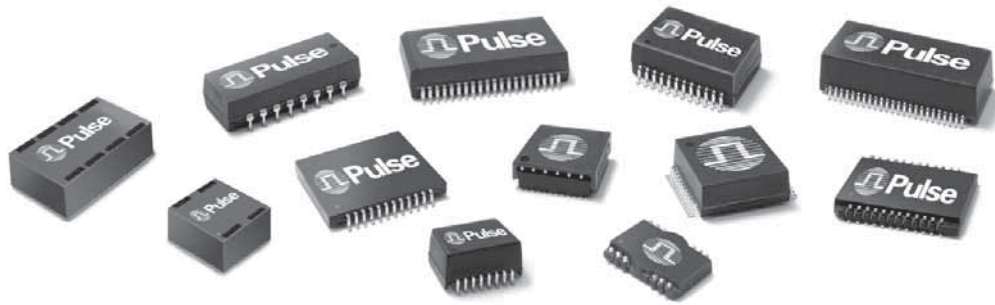


LAN DISCRETE TRANSFORMER MODULES



Pulse Discrete Transformer Modules

Pulse offers the most comprehensive line of discrete LAN transformer modules available to the OEM worldwide. Modules 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. 10G as well as PoE+ solutions are available. 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, 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, go to the Pulse website home page and click the right-hand navigation link that says "DATA SHEETS."

For the reader's convenience and to locate multiple platforms easily, view the IC Cross References that start on page 19.

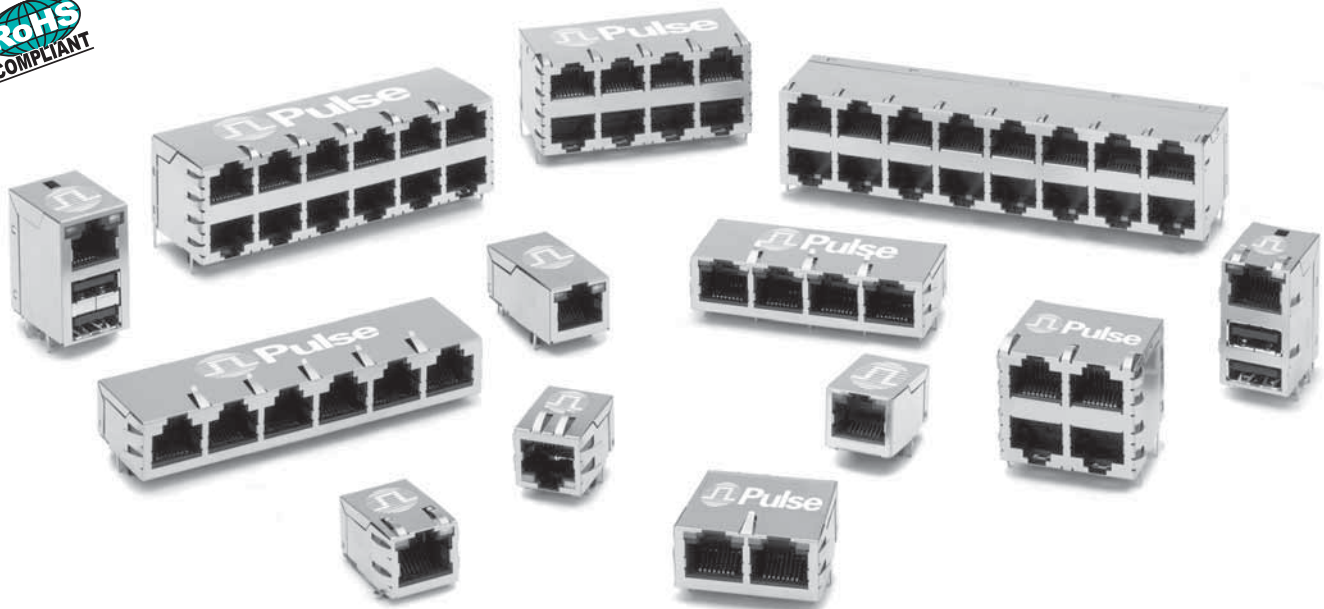
DISCRETE SMT TRANSFORMER MODULES ¹

No. of Ports	Single				Dual		Quad		
Data Rate	10Base-T	10/100TX	Gigabit	10G	10/100TX	Gigabit	10Base-T	10/100TX	Gigabit
Data Sheet Number	E103 (LP) ²	H303 (1:1 TR)	HC500 (1:1 TR)	H700	H322 (1:1 TR)	HC500 (1:1 TR)	EC101 (var. TR)	H313 (1.41:1 TR)	H551 (ext temp)
	E112 (ext temp)	H304 (LP) ²	H504 (LP) ²		H327 (PoE)	H601 (PoE)		H316 (1:1 TR)	
	E115 (1:1 TR)	H314 (var. TR)	H544 (1:1 TR)		H600 (1:1 TR)	H551 (ext temp)		H321 (2:1 TR)	
	EC100 (SMT, THT)	H315 (2:1 TR)	H546 (small footprint)			H552		H327 (PoE)	
	H325 (var. TR)	H601 (PoE)						H328 (1:1 TR)	
	H326 (var. TR)							H600 (1:1 TR)	
		H327 (PoE)							
		H328 (1:1 TR)							
		H342 (1:1 TR)							
		H600 (1:1 TR)							

1. For common mode chokes, see data sheet G002

2. LP = Low Profile

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, they 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 (10G and PoE+). For RoHS compliant products, refer to 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, go to the Pulse website home page and click the right-hand navigation link that says "DATA SHEETS."

For the readers convenience and to locate multiple platforms easily, view the IC Cross References starting on page 19.

RJ45 FILTERED CONNECTORS											
Number of Ports	One Port						1xN (2, 4, 6, 8)		2xN (1, 2, 4, 6, 8)		RJ45/dual USB
Locking Tab Up/Down	Down			Up			Down	Up	—		Up
PCB Mounting Type	THT		SMT	THT		SMT	THT		THT		THT
Data Rate	10/100TX	10G	10/100TX	10/100TX	Gigabit	10/100TX	10/100TX	Gigabit	10/100TX	Gigabit	10/100TX
Data Sheet Number	J403 J414	J425	J409 (ext temp)	J402 (ext temp) J415 (PoE) J423 (LP)	J411 (ext temp) J428 (PoE) J423 (LP) 1	J409	J404 J416 (PoE)	J410	J401	J405 J422 J429 J427	J408

1. LP = low profile

LAN IC CROSS REFERENCE



10GBASE-T DISCRETE COMPONENTS						10GBASE-T ICMs			
IC				Single ^A		1x1		1x1 Offset	
Manufacturer	Part Number	Ports	Notes	Part Number	Data Sheet	Platform	Data Sheet	Platform	Data Sheet
Aquantia	AQ1001	1	PHY	H7001	H700	JTH ¹	J425	JT0 ²	J425
	AQ1002	1	PHY	H7008	H700	JTH ¹	J425	JT0 ²	J425
Broadcom	BCM8481	1	PHY	H7001	H700	JTH ¹	J425	JT0 ²	J425
Solarflare	SFX7101	1	PHY	H7009	H700	JTH ¹	J425	JT0 ²	J425
	SF9000	1	PHY	H7009	H700	JTH ¹	J425	JT0 ²	J425
	SF9001	1	PHY	H7009	H700	JTH ¹	J425	JT0 ²	J425
Teranetics	TN1010	1	PHY	H7008	H700	JTH ¹	J425	JT0 ²	J425
	TN2010	1	PHY	H7008	H700	JTH ¹	J425	JT0 ²	J425
	TN2020	1	PHY	H7008	H700	JTH ¹	J425	JT0 ²	J425
	TN2022	2	PHY	H7008	H700	JTH ¹	J425	JT0 ²	J425

1. Tab down

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

GIGABIT DISCRETE COMPONENTS										GIGABIT ICMs							
IC				Single		Dual		Quad		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														

Footnotes at the bottom of the last 1Gigabit table.

Continued on next page.

SMT - Surface Mount Package THT - Through Hole Package

LAN IC CROSS REFERENCE

GIGABIT DISCRETE COMPONENTS (continued)										GIGABIT ICMS (continued)							
IC				Single		Dual		Quad		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
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										
	BCM5460/61/81	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														
	BCM5461S	1	PHY	H5062	H601							JG0-0024NL	J410				
	BCM5478/87/88/98	8	PHY														
	BCM5345/46/47/48	24, 16, 5	Switch														
	BCM5384/85/88	8, 5, 4	Switch														
	BCM5395	4	PHY										JG0 Series	J410			
	BCM54980	8	PHY														
	BCM5787M	1	PHY								JK0-0004NL						
BCM5789	1	PHY	H5008	HC5 00													
AC1011/1012	1	PHY	H5062			H601											
Intel	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										
	82562	1	MAC/PHY	H5077	H546	H6080	H601										
	82570/71/72/73/74	1	MAC/PHY			H5200	H551				J0G-0009NL	J423				JW0-0008NL	
	82576EB	1	MAC/PHY	H5007NL	HC500												
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	H5201	H551										
	ET1011C	1	PHY							JK0654219NL	J411						
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
	88E1111/12/14/18/19	1	PHY	H5062	H601	H5020 ¹	HC500			J0G-0009NL	J423						
	88E1121R	1	PHY									JG0-0023NL	J410				
	88E1040/1040S/1041	4	PHY	H5077	H546	H6080	H601										
	88E1041S/1042/1042S	4	PHY	H6062	H601	H5200	H551										
	88E1141/1145/1149	8	PHY							J0G-0001NL	J423						
	88E1340	1	PHY	H5077	H546												
	88E8000/05/06	8	MAC/PHY														
	88E6045	2	PHY														
	88E6122	6	PHY														
	88E8022/36/50/62	8	MAC/PHY														

Footnotes at the bottom of the last 1Gigabit table.

SMT - Surface Mount Package THT - Through Hole Package

LAN IC CROSS REFERENCE



GIGABIT DISCRETE COMPONENTS (continued)										GIGABIT ICMS (continued)							
IC				Single		Dual		Quad		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
Micrel	KS9020	1	MAC/PHY	H5007	HC500	H5012 H5201	HC500 H551	H5401	H551	JK0 Series ^{2, C}		JG0 Series ^{3, C}	J410	JC0 Series ^{4, C}	J405*	JW0 Series ^D	J408
Mysticom	MY1001	1	PHY	H5007 H5062	HC500 H601	H5012 H5020 ¹ H5201	HC500 HC500	H5401	H551	JK0 Series ^{2, C}	J411	JG0 Series ^{3, C}	J410	JC0 Series ^{4, C}	J405*	JW0 Series ^D	J408
National Semiconductor	DP83865	1	PHY	H5007	HC500	H5012	HC500	H5400	H551	JK0654219NL	J411	JG0 Series ^{3, C}	J410	JC0 Series ^{4, C}	J405*	JW0 Series ^D	J408
	DP83864	4	PHY	H5062	H601	H5020 ¹	HC500										
	DP83640	1	PHY	H6062	H601	H6080 H5200	H601 H551										
Realtek	RLT8211/12	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
	RLT8169	1	MAC/PHY	H5062	H601	H5020 ¹	H503										
	RTL8100E/01E/10/11B					H5201	H551										
SMSC	LAN8187	1	PHY	H6062	H601												
Vitesse Semiconductor	VSC8201/8211	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
	VSC8221/8601/8641	1	P5HY	H5062	H601	H5020 ¹	HC500										
	VSC8204/24/34/44	4	PHY	H5084	H544	H6080	H601										
	VSC8558/8538	8	PHY	H6062	H601	H5200	H551										
	wVSC7380/7384	8, 12	GbE switch	H5008	HC500												
	VSC7388/7398	8	PHY	H5014	HC500												
	VSC7385/7395/7396	5	PHY														
	VSC7389/7391	16	PHY														
	VSC7390	24	PHY														
VSC7301/7303	16, 24	GbE switch															

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

1. **Compact** foot print dual magnetic cross reference
2. **Single** port THT tab-up connector cross reference
3. **Multiport** 1byN THT tab-up connector cross reference
4. **Multiport** THT 2byN 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.

LAN IC CROSS REFERENCE



10/100BASE-TX DISCRETE COMPONENTS											10/100BASE-TX ICMS							
IC					Single		Dual		Quad		1x1		1xN		2xN		RJ45/USB	
Manufacturer	Part Number	Ports	Notes	Turns Ratio	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	ET901	1	PHY	1:1	H1102	H325	H1270	H322			J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	ET908	8	PHY	1:1	H1260	H600	HX1294	H322			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
					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	J408
	AM79C971/C972/C973/	1	PHY	1:1	H1260	H600	HX1294	H322			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
	AM79C975/C976/C977	1	PHY	1:1	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						
					H20192 ²	H327					J3018G21D ⁵	J409						
					H0026	H304												
				PE-69012 ^E	H304													
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	J408
	AC104/205/206/207/208	4	PHY	1:1					H1164 ²	H328			J80 Series	J404	J20 Series	J401		
	AC131		PHY	1:1	H1012	H303	HX1294	H322	H1164 ²	H328	J0011D21	J403	J80 Series	J404	J20 Series	J401		
	BCM1190	1	PHY	1:1	H1102	H325												
	BCM4401	1	PHY	1:1	H1267	H342											JW0A1P01R	
	BCM5241	1	PHY	1:1	H1102	H325	H2005A ²	H327	H1164	H328	J00 Series	J403	J80 Series	J404				
	BCM5220/ 5221	1	PHY	1:1	H1012	H303	HX1294	H322			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
	BCM5222	2	PHY	1:1	HX1148	H303	H2005A ²	H327			JV006I21 ⁴	J409						
	BCM1100/110/	2	VoIP/PoE	1:1	H2019 ²	H327	H2009 ²	H327			J3006G21D ⁵	J409						
	BCM1112/1190																	
	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	H1260	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)	5	MAC/PHY	1:1	HX1188 ¹	H325			HX1234 ²	H328			J8064E68 ⁷	J404	J2045H3C ^C	J401		
	BCM5365																	
	BCM5225/26/27	6	PHY	1:1	H1102	H325			H2017 ²	H327			J8064D648A ⁶	J404				
BCM5248	8	PHY	1:1															
AC207/208	8	PHY	1:1	H20192 ²	H327							J8064D668A ⁶	J404					

Footnotes at the bottom of the last 10/100Base-TX table.

Continued on next page.

SMT - Surface Mount Package THT - Through Hole Package

LAN IC CROSS REFERENCE



10/100BASE-TX DISCRETE COMPONENTS (continued)											10/100BASE-T ICMs (continued)							
IC					Single		Dual		Quad		1x1		1xN		2xN		RJ45/USB	
Manufacturer	Part Number	Ports	Notes	Turns Ratio	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
Broadcom (continued)	BCM5228/5238/5248	8	PHY	1:1									J8064D688A ⁶	J404	J20 Series	J401		
	BCM5318/5338	8	MAC/PHY	1:1					H1164	H328								
	BCM5384	4	Switch	1:1	H0042 ²	H304												
	BCM5721	1	PHY	1:1														
	BCM5347/5348	48	PHY	1:1														
Cirrus Logic	CS8952	1	PHY	1:1	H1102	H325	H1270	H322			J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	CS8952T	1	PHY	1:1	H1260	H600	H2005A ²	H327			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
				1:1	HX1188 ¹	H325	H2009 ²	H327			JV006I21 ⁴	J409						
				1:1	HX2019 ²	H327					J3006G21D ⁵	J409						
				1:1	PE-69012 ^E	H304					J0C-0003 ⁴	J409						
Davicom	DM9000/A	1	MAC	1:1	H1012	H325	H1270	H322	H1036	H316	J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	DM9161	1	PHY	1:1	H1265	H600					J3006G21D ⁵	J409	J8064D628A ⁶	J404				
	DM9102A/D	1	MAC/PHY	1:1	H1102	H325					J0C-0003 ⁴	J409	JG0-0031 ⁶	J416				
	DM9601	1	MAC/PHY	1:1	HX1188 ¹	H325												
	DM9301/9331	1	PHY	1:1	H2019 ²	H327												
				1:1	Hx2019 ²	H327												
				1:1	PE-69012 ^E	H304												
IC+	3097-F, 3299A	1	PHY	1:1	H 1102	H325	H1270	H322	H1164 ²	H328	J0006D21 ³	J403	J8064E62 ⁶	J404	J2045H3A ^C	J401	JW0-0009 ^D	J408
	IP100A	1	PHY	1:1	H1260	H600	H2005A ²	H327	H1259	H600	J1006F21 ³	J402	J8064D628A ⁶	J404	J2045H3B ^C	J401	JY0-0016 ^D	J408
	IP108	8	PHY	1:1	HX1188 ¹	H325	H2009 ²	H327	HX1234 ¹	H328	JV006I21 ⁴	J409	J8064D648A ⁶	J404	J2045H3C ^C	J401		
	IP1726	26	PHY	1:1	HX2019 ²	H327			H2017 ²	H327	J3006G21D ⁵	J409						
	IP101	1	PHY	1:1	PE-69012 ^E	H304					J0C-0003 ⁴	J409						
ICS	ICS1890/1891	1	PHY	1:1	H1102	H325	H1270	H322			J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	ICS1893	1	PHY	1:1	H1260	H600	H2005A ²	H327			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
				1:1	HX1188 ¹	H325	H2009 ²	H327			JV006I21 ⁴	J409						
				1:1	H1012	H303					J3006G21D ⁵	J409						
			1:1	PE-69012 ^E	H304													
Infineon (AMD Tek)	PSB21553	2	PoE/PHY	1:1			H2006A ²	H327							J20 Series	J401	JW0-0009 ^D	J408
	ADM8511/8513/9511	1	PHY	1:1	H1102	H325	H1270	H322			J0006D21 ³	J403	J8064E62 ⁶	J404			JY0-0016 ^D	J408
	ADM9513, AN983B	1	PHY	1:1	H1260	H600	H2005A ²	H327			J1006F21 ³	J402	J8064D628A ⁶	J404				
	AN985B/L autoMDX	1	PHY	1:1	HX1188 ¹	H325	H2009 ²	H327			JV006I21 ⁴	J409						
	ADM7001	1	PHY	1:1	H2019 ²	H327	HX1294	H322			J3006G21D ⁵	J409						
				1:1							J0C-0003 ⁴	J409						
	ADM6305,	5	PHY	1:1	H1260	H600			H1164 ²	H328			J8064E64 ⁶	J404	J2045H3A ^C	J401		
	ADM6308/6326/	8	PHY	1:1					H1259	H600			J8064E68 ⁶	J404	J2045H3B ^C	J401		
	ADM6509																	
	ADM6609/6909	8.9	PHY	1:1					HX1234 ¹	H328			J8064D648A ⁶	J404	J2045H3C ^C	J401		
ADM6996L	5	PHY	1:1					H2017 ²	H327			J8064D688A ⁶	J404					

Footnotes at the bottom of the last 10/100Base-TX table.

Continued on next page.

SMT - Surface Mount Package THT - Through Hole Package

LAN IC CROSS REFERENCE

10/100BASE-TX DISCRETE COMPONENTS (continued)										10/100BASE-TX ICMS (continued)								
IC					Single		Dual		Quad		1x1		1xN		2xN		RJ45/USB	
Manufacturer	Part Number	Ports	Notes	Turns Ratio	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
Intel	82551/2551QM/551ER	1	MAC/PHY	1:1	H1102	H325	H1270	H322	H1164 ²	H328	J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
	82562/562EZ/550	1	MAC/PHY	1:1	H1260	H600	H2005A ²	H327	H1259	H600	J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408
	82559/559ER	1	MAC/PHY	1:1	HX1188 ¹	H325	H2009 ²	H327	HX1234 ¹	H328	JV006I21 ⁴	J409						
	LXT970A/971(ALC)/972A	1	PHY	1:1	H1112	H326					J3006G21D ⁵	J409						
	LXT973	2	PHY	1:1	H2019 ²	H327					JOC-0003 ⁴	J409						
	LXT972	1	PHY	1:1	PE-69012 ^E	H304					J00-0014 ³	J414						
Luminary Micro	LM3S6938	1	PHY	1:1	H1102	H325					J00 Series	J403						
	LM3S6611	1	PHY	1:1							JK0-0025 (PoE)	J411						
	LM3S8962	1	PHY	1:1	H2019 (PoE)	H327												
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			JOC-0003 ⁴	J409				
Marvell	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
	88E6060/88E6218	5/6	PHY	1:1	HX1188 ¹	H325	H2009 ²	H327	HX1234 ¹	H328	JV006I21 ⁴	J409	J8064E648A ⁶	J404	J2045H3C ^C	J401		
	88E6052, 88E6063	5/6/7	PHY	1:1	H2019 ²	H327			H2017 ²	H327	J3006G21D ⁵	J409	J8064E688a ⁶	J404				
	88E3081/3082/3083	8	PHY	1:1	PE-69012 ^E	H304					JOC-0003 ⁴	J409						
	88E6083	10	Switch	1:1	H1183	H325					JK0654218Z	J411						
	88E6095	8	Switch	1:1														
MICREL	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			JV006I21 ⁴	J409						
	KSZ8893	1	PHY	1:1	H2019 ²	H327	H2006A ²	H327			J3006G21D ⁵	J409						
					PE-69012 ^E	H304			JOC-0003 ⁴	J409			J1011F01P ³	J402				
	KS8695P	5	PHY	1:1			H2009 ²	H327	H1164 ²	H328			J8064E64 ⁶	J404	J2045H3A ^C	J401	JW0-0009 ^D	J408
	KS8995/95M/95MA/95E	5	MAC/PHY	1:1			H1270	H322	H1259	H600			J8064E68 ⁶	J404	J2045H3B ^C	J401	JY0-0016 ^D	J408
	KS8995X	5	MAC/PHY	1:1					HX1234 ¹	H328			J8064E648A ⁶	J404	J2045H3C ^C	J401		
	KS8997/KS8998	8	MAC/PHY	1:1					H2017 ²	H327			J8064E688A ⁶	J404				
KS8999	9	MAC/PHY	1:1															

Footnotes at the bottom of the last 10/100Base-TX table.

Continued on next page.

SMT - Surface Mount Package THT - Through Hole Package

LAN IC CROSS REFERENCE



10/100BASE-TX DISCRETE COMPONENTS (continued)											10/100BASE-TX ICMS (continued)							
IC					Single		Dual		Quad		1x1		1xN		2xN		RJ45/USB	
Manufacturer	Part Number	Ports	Notes	Turns Ratio	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
Microchip	PIC18F87J50	1	PHY	1:1	H1102	H325					J00 Series	J403						
	PIC18F67J60	1	PHY	1:1							J00 Series	J403						
	ENC28J60	1	PHY	1:1	H1102	H325					J00-0065	J414						
MicroLinear	ML6652	1	AutoMDX	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						
					PE-69012 ^E	H304	H2019 ²	H327			J3006G21D ⁵	J409						
Myson	MTD971 MTD972 MTD981	1 1 1	PHY PHY PHY	1:1 1:1 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						
					H2019 ²	H327			H2017 ²	H327	J3006G21D ⁵	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	23
					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						
					H2019 ²	H327			H2017 ²	H327	J3006G21D ⁵	J409						
					PE-69012 ^E	H304					JOC-0003 ⁴	J409						
National Semiconductor	DP83847 DP83848/C DP83816 (macphyter II)	1 1 1	PHY PHY MAC/PHY	1:1 1:1 1:1	H1102	H325	H1270	H322	H1164 ²	H328	J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408
					H1012	H303	HX1294	H322	H1036L	H316	J1006F21 ³	J402	J8064D628A ⁶	J404		JY0-0016 ^D	J408	
					H1260	H600	HX1148	H303	H2005A ²	H327	J1006D21 ⁶	J402	J1006D21 ⁶	J402				
					HX1188 ¹	H325	H2009 ²	H327	HX1234 ¹	H328	JV006I21 ⁴	J409						
					H2019 ²	H327			H2017 ²	H327	J3006G21D ⁵	J409						
					PE-69012 ^E	H304			H1259	H600	JOC-0003 ⁴	J409						
Realtek	RTL8100C/101L/100B RTL8139/B/C/CL RTL8150 RTL8201CL/8201BL RTL8019AS RTL8181/86 RTL8208 RTK8308 RTL8309	1 ? 1 1 1 1 8 8 9	Controller Controller Controller PHY PHY Controller Controller PHY Controller Controller	1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:1 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	
					H1251	H600	H2009 ²	H327			JV006I21 ⁴	J409						
					H1281	H600					J3006G21D ⁵	J409						
					HX1188 ¹	H325					JOC-0003 ⁴	J409						
					H2019 ²	H327					J0026D01B ³	J403						
					PE-69012 ^E	H304					J1012F01C ³	J402						
					H0019	H304					J3011G21D ⁵	J409						
					H1112	H326					J1011F01P ³	J402						

Footnotes at the bottom of the last 10/100Base-TX table.

Continued on next page.

LAN IC CROSS REFERENCE



10/100BASE-TX DISCRETE COMPONENTS (continued)											10/100BASE-TX ICMS (continued)								
IC					Single		Dual		Quad		1x1		1xN		2xN		RJ45/USB		
Manufacturer	Part Number	Ports	Notes	Turns Ratio	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	
Realtek (continued)	RTL8208	8	PHY	1:1	H1102	H325	H1260	H600	H1164 ²	H328	J0006D21 ³	J403	J8064E64 ⁶	J404	J2045H3A ^C	J401	JW0-0009 ^D	J408	
	RTL8316	16	Controller	1:1	H1260	H600	H2005A ²	H327	H1259	H600	J1006F21 ³	J402	J8064D68 ⁶	J404	J2045H3B ^C	J401	JY0-0016 ^D	J408	
SIS	SIS900	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	
					H2019 ²	H327	H2009 ²	H327			JV006I21 ⁴	J409							
					PE-69012 ^E	H304					J3006G21D ⁵	J409							
												J0C-0003 ⁴	J409						
SMSC	LAN83C183/185	1	PHY	1:1	H1102	H325	H1270	H322			J0006D21 ³	J403	J8064E62 ⁶	J404	J20 Series	J401	JW0-0009 ^D	J408	
	LAN91C100FD/110	1	Controller	1:1	H1260	H600	H2005A ²	H327			J1006F21 ³	J402	J8064D628A ⁶	J404			JY0-0016 ^D	J408	
	LAN91C96, LAN91C96I	1	Controller	1:1	HX1188 ¹	H325	H2009 ²	H327			JV006I21 ⁴	J409							
	LAN91C111	1	PHY	1:1	H2019 ²	H327					J3006G21D ⁵	J409							
	LAN8700	1	PHY	1:1	PE-69012 ^E	H304					J0C-0003 ⁴	J409							
	LAN9115										J0026D21 ³	J403							
										J0011D21B	J403								

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** 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. **Multiport** 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.

LAN IC CROSS REFERENCE



10BASE-T DISCRETE COMPONENTS											
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)*		
AMD	AM79C90, AM79C98,	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000/.400/.338	FL1020	
	AM79C100, AM79C940,	E2003	Single Port	R, F, T, C	R, F, T, C	1CT:1	1CT:1	SMT	1.000/.500/.230	E115	
	AM79C960, AM79C961,	PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000/.210/.450	E104	
	AM79C965, AM79C970,	SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010/.380/.246	SF1012	
	AM79C971, AM79C981,	PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930/.510/.230	E115	
	AM79C982, AM79C983,	FL1012	Single Port	F, T, C	F, T	1CT:1CT	1CT:1CT	DIL	1.000/.400/.338	FL1012	
	AM79C961 (PC net-ISA II)	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,	PE-68049L	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125/.640/.230	EC101
		AM79C988, AM79C989	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
		AM186CC15DN	E2003	Single Port	R, F, T, C	R, F, T, C	1CT:1	1CT:1	SMT	1.000/.500/.230	E115
Cirrus Logic	CS8900, CS8920	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	
		CS8900A-CQ3	E2023	Single Port	T, C	T, C	1CT:2.5CT	1CT:1CT	SMT	.500/.375/.230	EC100
	CS8900A-RQ3	EX2024	Single Port	T, C	T, C	1CT:2.5CT	1CT:1CT	SMT	.500/.370/.200	EC100	
Davicom	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	
	MB86951, MB86961,	23Z356SM	Single Port	T, C	T, C	1CT:1.414CT	1CT:1CT	SMT	.450/.360/.215	EC100	
	MB86964, MB86965B	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,	PE-68062L	Quad Port	T, C	T	1CT:1.414CT	1:1	SMT	1.125/.640/.230	EC101
		LXT916, LXT917,	PE-68065L	Quad Port	T	T	1CT:1.414CT	1:1	SMT	1.125/.640/.230	EC101
		LXT918, LXT944	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	
LSI	L64381	FL1020	Single Port	R, F, T, C	R, F, T, C	1CT:1CT	1CT:1CT	DIL	1.000/.400/.338	FL1020	
	80C24	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:1C T	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	

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)

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 IC CROSS REFERENCE



10BASE-T DISCRETE COMPONENTS (continued)

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)*	
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	23Z435SM	Single Port	T	T	2CT:1CT	1CT:1CT	DIL	.800/.340/.250	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	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
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	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
ST4202T		Single Port	T, C	T, C	1CT:2CT	1CT:1CT	SMT	.447/.360/.223	ST4202T	
Realtek	RTL8301	PE-68049L	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125/.640/.230	EC101
	RTL8019AS	PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930/.510/.230	E115
	RTL8029AS	PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930/.510/.230	E115
	RTL8301	PE-68049L	Quad Port	T, C	T	1CT:1CT	1:1	SMT	1.125/.640/.230	EC101
SMSC	LAN91C46	PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930/.510/.230	E115
	LAN91C91	EX2001	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930/.510/.230	E112
	LAN91C96	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
	LAN91C111	E2009	Single Port	F, T, C	F, T	1CT:1.414	1CT:1	SMT	1.000/.500/.230	E115
		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

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)

LAN IC CROSS REFERENCE



ATM NETWORK COMPONENTS IC CROSS REFERENCE

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).

COMMON MODE CHOKES FOR LAN AND TELECOM APPLICATIONS

Part Number	Number of Lines	Inductance OCL (µH MIN)	Package ⁴ L/W/H (in.)*	Data Sheet	Part Number	Number of Lines	Inductance OCL (µH MIN)	Package ⁴ L/W/H (in.)*	Data Sheet
23Z107	2	68	.340/.230/.250	G002	PE-65541	4	6000	.558/.558/.400	G002
PE-67531	2	140	.400/.200/.350	G002	PE-68613	4	3290	.505/.400/.500	G002
B2005	2	9000	.500/.400/.630	G002	T8052	4	35	.290/.240/.150	T661
T8116T	2	470	.248/.350/.154	T673	T8055	4	5	.290/.240/.150	T661
T8112T	2	1000	.248/.350/.154	T673	PE-65857	4	22.5	.600/.475/.340	G002
T8113T	2	2200	.248/.350/.154	T673	PE-68627	4	24	.355/.345/.207	G002
T8114T	2	4700	.248/.350/.154	T673	T8003	4	33	.450/.360/.215	G002
PE-68624 ¹	2	47	.360/.260/.098	G002	23Z4000SMD	4	36	.600/.500/.270	G002
PE-65855	2	4700	.400/.345/.250	G002	PE-65738	4	37	.500/.370/.200	G002
B2013	2	6300	.600/.475/.340	G002	PE-65854	4	47	.360/.340/.098	G002
T8051	2	35	.290/.240/.150	T661	23Z104SMNL	4	68	.360/.230/.215	G002
B4003	2	4700	.355/.345/.300	G002	PE-67540	4	100	.600/.475/.340	G002
BX8191	2	—	.585/.473/.335	B824	T8006	4	470	.360/.340/.600	T639
R0003	3	20	.360/.260/.098	G002	T8005	4	4700	.360/.340/.600	T639
PE-65554	4	24	.595/.480/.300	G002	PE-65853	4	4700	.720/.550/.390	G002
42Z4000	4	36	.500/.400/.250	G002	PE-64683	6	25	.685/.480/.300	G002
PE-67501	4	50	.500/.500/.375	G002	23Z106SM	6	68	.450/.360/.215	G002
PE-68002	4	68	.400/.400/.300	G002	PE-69011	8	36	.500/.370/.200	G002
23Z104	4	85	.450/.340/.250	G002	23Z105SMNL	8	68	.450/.360/.215	G002
PE-67539	4	140	.500/.500/.375	G002	23Z109SM ³	10	7.5	.600/.420/.215	G002
PE-65542	4	1000	.558/.558/.400	G002	T8132NL	16	47	1.00/.425/.295	T627
PT5039	4	3600	.502/.431/.520	G002	T8008	16	47	1.125/.640/.230	G002
J0010D11 ²	4	—	.850/.630/.535	G002					
BX8192	4	—	.585/.473/.335	B824					
PE-65950	4	4700 (±30%)	.558/.558/.400	G002					

1. **PCMCIA** package (SMT)

2. **RJ45** Filtered Connector with integrated choke

3. **100 kHz**, IV

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

SMT - Surface Mount Package THT - Through Hole Package