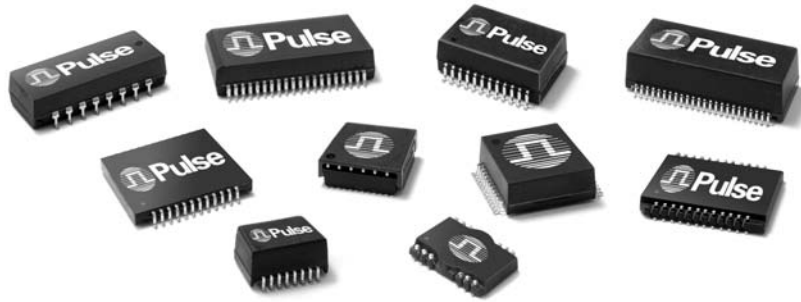


# LAN DISCRETE TRANSFORMER MODULES



## 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."

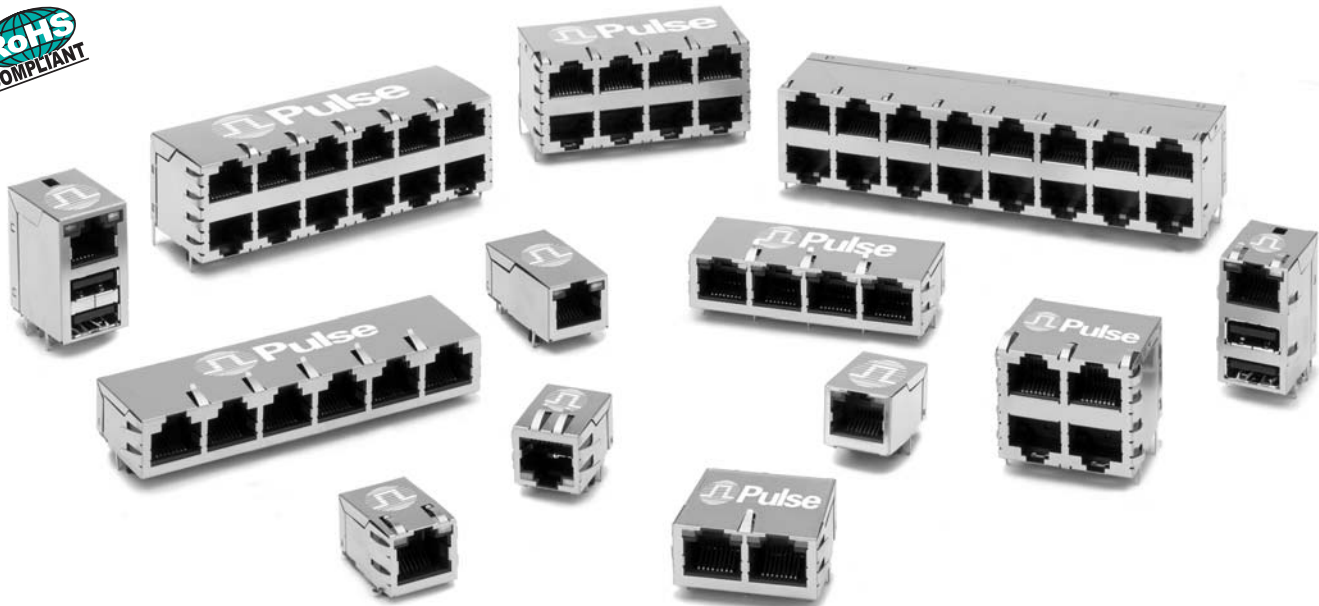
For the reader's convenience and to locate multiple platforms easily, view the IC Cross References that start on page 29.

### DISCRETE SMT TRANSFORMER MODULES

Number of Ports	Single			Dual		Quad	
Data Rate	10Base-T	10/100TX	Gigabit	10/100TX	Gigabit	10Base-T	10/100TX
<b>Data Sheet Number</b>	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		THT	
Data Rate	10/100TX	10/100TX	10/100TX	Gigabit	10/100TX	10/100TX	Gigabit	10/100TX	Gigabit	10/100TX	Gigabit
Data Sheet	J403	J409	J402	J411	J409	J404	J410	J401	J405	J408	J408
Number	J414		J415 (PoE)			J416 (PoE)			J422		

# LAN GIGABIT IC CROSS REFERENCE



DISCRETE COMPONENTS & INTEGRATED MODULES										RJ45 & RJ45/USB PLATFORMS <sup>B</sup>								
IC		Single <sup>A</sup>		Dual <sup>A</sup>		Quad <sup>A</sup>		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			
Agere	ET1011, ET1012	1	PHY	H5007	HC500	H5012	HC500	H5400	H551	JK0 Series <sup>2.c</sup>	J411	JG0 Series <sup>3.c</sup>	J410	JC0 Series <sup>4.c</sup>	J405*	JW0 Series <sup>D</sup>	J408	
	ET1081	8	PHY	H5062	H601	H5020 <sup>1</sup>	HC500	H5400	H551									
	ET1310	1	MAC/PHY	H5004	HC500	H6014	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																
GEPI1-68		PHY																
Broadcom	BCM5400, BCM5401	1	PHY	H5007	HC500	H5012	HC500	H5401	H551	JK0 Series <sup>2.c</sup>	J411	JG0 Series <sup>3.c</sup>	J410	JC0 Series <sup>4.c</sup>	J405*	JW0 Series <sup>D</sup>	J408	
	BCM5411/21/21S	1	PHY	H5062	H601	H5020 <sup>1</sup>	HC500											
	BCM5460/61	1	PHY	H5004	HC500	H6014	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																
Intel	82540/ 541/544/543	1	MAC/PHY	H5007	HC500	H5012	HC500	H5400	H551	JK0 Series <sup>2.c</sup>	J411	JG0 Series <sup>3.c</sup>	J410	JC0 Series <sup>4.c</sup>	J405*	JW0 Series <sup>D</sup>	J408	
	82544/545/546/547	1	MAC/PHY	H5062	H601	H5020 <sup>1</sup>	HC500											
	82570	1	MAC/PHY	H5077	H546	H6080	H601											
LSI Logic	L80600	1	PHY	H5007	HC500	H5012	HC500	H5401	H551	JK0 Series <sup>2.c</sup>	J411	JG0 Series <sup>3.c</sup>	J410	JC0 Series <sup>4.c</sup>	J405*	JW0 Series <sup>D</sup>	J408	
	L80601	1	PHY	H5062	H601	H5201	H551											

**\*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. 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](mailto: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								
Manufacturer	IC			Notes	Single <sup>A</sup>		Dual <sup>A</sup>		Quad <sup>A</sup>		1x1		1xN		2xN		RJ45/USB	
	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	Part Number
Marvell Semiconductor	88E1010/1011S	1	H5007	HC500	H5012	HC500	H5400	H551	JK0 Series <sup>2 c</sup>	J411	JG0 Series <sup>3 c</sup>	J410	JC0 Series <sup>4 c</sup>	J405*	JW0 Series <sup>D</sup>	J408		
	88E1111/1112	1	H5062	H601	H5020 <sup>1</sup>	HC500	H5401	H551										
	88E1040/1040S/1041	4	H5077	H546	H6080	H601												
	88E1041S/1042/1042S	4	H6062	H601	H5200	H551												
	88E1141/1145/1149	8																
	88E8000/05/06	8																
	88E6045	2																
88E6122	6																	
88E8022/86/50/62	8																	
Micrel	KS9020	1	H5007	HC500	H5012	HC500	H5401	H551	JK0 Series <sup>2 c</sup>	J411	JG0 Series <sup>3 c</sup>	J410	JC0 Series <sup>4 c</sup>	J405*	JW0 Series <sup>D</sup>	J408		
			H5062	H601	H5020 <sup>1</sup>	HC500	H5401	H551										
Mysticom	MY1001	1	H5007	HC500	H5012	HC500	H5401	H551	JK0 Series <sup>2 c</sup>	J411	JG0 Series <sup>3 c</sup>	J410	JC0 Series <sup>4 c</sup>	J405*	JW0 Series <sup>D</sup>	J408		
			H5062	H601	H5020 <sup>1</sup>	HC500	H5401	H551										
National Semiconductor	DP83865	1	H5007	HC500	H5012	HC500	H5400	H551	JK0 Series <sup>2 c</sup>	J411	JG0 Series <sup>3 c</sup>	J410	JC0 Series <sup>4 c</sup>	J405*	JW0 Series <sup>D</sup>	J408		
	DP83864	4	H5062	H601	H5020 <sup>1</sup>	HC500	H5400	H551										
Realtek	RTL8211/12	1	H5007	HC500	H5012	HC500	H5401	H551	JK0 Series <sup>2 c</sup>	J411	JG0 Series <sup>3 c</sup>	J410	JC0 Series <sup>4 c</sup>	J405*	JW0 Series <sup>D</sup>	J408		
	RTL8169	1	H5062	H601	H5020 <sup>1</sup>	HC500	H5401	H551										
	RTL8100E/01E/10/11B	1			H5201	H551												
Vitesse Semiconductor	VSC8201/8211	1	H5007	HC500	H5012	HC500	H5401	H551	JK0 Series <sup>2 c</sup>	J411	JG0 Series <sup>3 c</sup>	J410	JC0 Series <sup>4 c</sup>	J405*	JW0 Series <sup>D</sup>	J408		
	VSC8221/8601/8641	1	H5062	H601	H5020 <sup>1</sup>	HC500	H5401	H551										
	VSC8204/24/34/44	4	H5084	H544	H6080	H601												
	VSC8558/8538	8	H6062	H601	H5012	HC500												
	VSC7380/7384	8, 12			H5200	H551												
	VSC7388/7398	8																
	VSC7385/7395/7396	5																
VSC7389/7391	16																	
VSC7390	24																	
VSC7301/7303	16, 24																	

\*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. Multipoint 1byN THT tab-up connector cross reference
4. Multipoint 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](mailto: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 10/100BASE-TX IC CROSS REFERENCE



DISCRETE COMPONENTS										RJ45 & RJ45/USB PLATFORMS <sup>B</sup>				
IC Manufacturer	IC		Turns Ratio <sup>A</sup>	Single Part Number	Dual Part Number	Quad Part Number	1x1 Part Number	1xN Part Number	2xN Part Number	RJ45/USB Part Number	Data Sheet	Data Sheet	Data Sheet	
	Part Number	Ports												Note
Agere	ET901	1	PHY	H1102	H1270	H325	H1270	J0006D21 <sup>3</sup>	J8064E62 <sup>6</sup>	J20 Series	J401	J401	J408	
	ET908	8	PHY	H1260	HX1294	H600	HX1294	J1006F21 <sup>3</sup>	J8064D628 <sup>6</sup>	J404	J404	J404	J408	
				H1112	H2005A <sup>2</sup>	H326	H2005A <sup>2</sup>	JV006I21 <sup>4</sup>						
				H1012	H325	H325	H325	J3006G21D <sup>5</sup>						
				HX1148	H303	H303	H303	J0C-0003 <sup>4</sup>						
				HX1188 <sup>1</sup>	H325	H325	H325	J0018D21 <sup>3</sup>						
				H2019 <sup>2</sup>	H327	H327	H327	J3018G21D <sup>5</sup>						
				H0026	H304	H304	H304							
				PE-69012 <sup>E</sup>	H304	H304	H304							
				H1081	H314	H314	H314							
AMD	AM79C874/C875	1	PHY	H1102	H1270	H325	H1270	J0006D21 <sup>3</sup>	J8064E62 <sup>6</sup>	J20 Series	J401	J401	J408	
	AM79C971/972/C973/AM79C975/C976/C977	1	PHY	H1260	HX1294	H600	HX1294	J1006F21 <sup>3</sup>	J8064D628A <sup>6</sup>	J404	J404	J404	J408	
		1	PHY	H1112	H2005A <sup>2</sup>	H326	H2005A <sup>2</sup>	JV006I21 <sup>4</sup>						
				H1012	H325	H325	H325	J3006G21D <sup>5</sup>						
				HX1148	H303	H303	H303	J0C-0003 <sup>4</sup>						
				HX1188 <sup>1</sup>	H325	H325	H325	J0018D21 <sup>3</sup>						
				H2019 <sup>2</sup>	H327	H327	H327	J3018G21D <sup>5</sup>						
				H0026	H304	H304	H304							
				PE-69012 <sup>E</sup>	H304	H304	H304							
				H1081	H314	H314	H314							
Broadcom	AC101, AC101L	1	PHY	H1102	H1270	H325	H1270	J0006D21 <sup>3</sup>	J8064E62 <sup>6</sup>	J20 Series	J401	J401	J408	
	AC131	1	PHY	H1012	HX1294	H303	HX1294	H328						
	BCM5241	1	PHY	HX1148	H2005A <sup>2</sup>	H303	H2005A <sup>2</sup>	H328						
	BCM5220/ 5221	1	PHY	H1012	H303	H303	H303	H600						
	BCM5222	2	PHY	HX1148	H2005A <sup>2</sup>	H303	H2005A <sup>2</sup>	J1006F21 <sup>3</sup>	J402	J404			J408	
	BCM1100/1101/1112/1190	2	VoIP/PoE	PE-69012 <sup>E</sup>	H327	H327	H2009 <sup>2</sup>	JV006I21 <sup>4</sup>	J409					
	BCM1115	1	MAC/PHY	H2019 <sup>2</sup>	H327	H327	H327	J3006G21D <sup>5</sup>	J409					
	BCM6345/6348	1	MAC/PHY	HX1188 <sup>1</sup>	H325	H325	H325	J0C-0003 <sup>4</sup>	J409					
	BCM5350/5380	8	Switch	H1260	H600	H600	H600	J0011D21B <sup>3</sup>	J403					
	AC104, BCM5208R	4	PHY	H1260	H600	H600	H600	JV011I21 <sup>4</sup>	J409					
	AC205/206	5	PHY	H1112	H326	H326	H326	J00-0014 <sup>3</sup>	J414	J404	J2045H3A <sup>C</sup>	J401	J401	
	BCM5315/5325(M)/5365	5	MAC/PHY	HX1188 <sup>1</sup>	H325	H325	H325	J1012F21K <sup>3</sup>	J402	J404	J2045H3B <sup>C</sup>	J401	J401	
	BCM5226	6	PHY	H1102	H325	H325	H325			J8064E66 <sup>6</sup>	J404	J404	J401	
	BCM5248	8	PHY	H2019 <sup>2</sup>	H327	H327	H327			J8064E68 <sup>7</sup>	J404	J404	J401	
	AC207/208	8	PHY	H2019 <sup>2</sup>	H327	H327	H327			J8064D648A <sup>6</sup>	J404	J404	J404	
	BCM5228/5238/5248	8	PHY	H2019 <sup>2</sup>	H327	H327	H327			J8064D688A <sup>6</sup>	J404	J404	J404	
BCM5318/5338	8	MAC/PHY	H0042 <sup>2</sup>	H304	H304	H304								
BCM5384	4	Switch												
BCM5721	1	PHY												
BCM5347/5348	48	PHY												

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

RJ45 & RJ45/USB PLATFORMS B

DISCRETE COMPONENTS

IC Manufacturer	IC		Turns Ratio <sup>A</sup>	TX	Single Part Number	Data Sheet	Dual Part Number	Data Sheet	Quad Part Number	1x1			1xN			2xN			RJ45/USB Part Number	Data Sheet
	Part Number	Ports								Note	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet		
Cirrus Logic	CS8952	1	PHY	1:1	H1102	H325	H1270	H322	H1036	H316	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408		
	CS8952T	1	PHY	1:1	H1260	H600	H2005A <sup>2</sup>	H327	H1260	H600	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408		
Davicom	DM9161	1	PHY	1:1	H1012	H325	H1270	H322	H1036	H316	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408		
	DM9102A	1	MAC/PHY	1:1	H1265	H600	H2005A <sup>2</sup>	H327	H1012	H325	J3006G21D <sup>5</sup>	J409	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408		
	DM9601	1	MAC/PHY	1:1	H1102	H325	H2009 <sup>2</sup>	H327	H1102	H325	J0C-0003 <sup>4</sup>	J409	J8064D628A <sup>6</sup>	J416	J20 Series	J401	JW0-0009 <sup>D</sup>	J408		
	DM9301/9331	1	PHY	1:1	HX1188 <sup>1</sup>	H325	H2019 <sup>2</sup>	H327	HX1188 <sup>1</sup>	H325	J0C-0003 <sup>4</sup>	J409	J8064D628A <sup>6</sup>	J416	J20 Series	J401	JW0-0009 <sup>D</sup>	J408		
					HX2019 <sup>2</sup>	H327	H304	H327	HX2019 <sup>2</sup>	H327	J0C-0003 <sup>4</sup>	J409	J8064D628A <sup>6</sup>	J416	J20 Series	J401	JW0-0009 <sup>D</sup>	J408		
IC+	3097-F, 3299A	1	PHY	1:1	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J2045H3A <sup>C</sup>	J401	JW0-0009 <sup>D</sup>	J408		
	IP100A	1	PHY	1:1	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401	JY0-0016 <sup>D</sup>	J408		
	IP108	8	PHY	1:1	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 <sup>4</sup>	J409	J8064D628A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401	JY0-0016 <sup>D</sup>	J408		
	IP1726	26	PHY	1:1	HX2019 <sup>2</sup>	H327	H304	H327	H2017 <sup>2</sup>	H327	J3006G21D <sup>5</sup>	J409	J8064D628A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401	JY0-0016 <sup>D</sup>	J408		
	IP101	1	PHY	1:1	PE-69012 <sup>E</sup>	H304	H304	H304	H2017 <sup>2</sup>	H327	J0C-0003 <sup>4</sup>	J409	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408		
ICS	ICS1890/1891	1	PHY	1:1	H1102	H325	H1270	H322	H1102	H325	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408		
	ICS1893	1	PHY	1:1	H1260	H600	H2005A <sup>2</sup>	H327	H1260	H600	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408		
Infineon (AMD/Tek)	PSB21553	2	PoE/PHY	1:1	H1102	H325	H2006A <sup>2</sup>	H327	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408		
	ADM1851/18513/9511	1	PHY	1:1	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408		
	ADM19513, AN983B	1	PHY	1:1	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 <sup>4</sup>	J409	J8064D628A <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401	JY0-0016 <sup>D</sup>	J408		
	AN985B/L autoMDX	1	PHY	1:1	H2019 <sup>2</sup>	H327	HX1294	H322	H2017 <sup>2</sup>	H327	J3006G21D <sup>5</sup>	J409	J8064D628A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401	JY0-0016 <sup>D</sup>	J408		
	ADM16305, ADM16308/6326/6509	5	PHY	1:1	H1260	H600	H2006A <sup>2</sup>	H327	H1164 <sup>2</sup>	H328	J0C-0003 <sup>4</sup>	J409	J8064E64 <sup>6</sup>	J404	J2045H3A <sup>C</sup>	J401	JW0-0009 <sup>D</sup>	J408		
ADM16609/6909	8,9	PHY	1:1	H1102	H325	H2005A <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	J0C-0003 <sup>4</sup>	J409	J8064E68 <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401	JY0-0016 <sup>D</sup>	J408			
ADM16996L	5	PHY	1:1	H1102	H325	H2009 <sup>2</sup>	H327	H2017 <sup>2</sup>	H327	J0C-0003 <sup>4</sup>	J409	J8064D648A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401	JY0-0016 <sup>D</sup>	J408			
Intel	82551/2551QM/551ER	1	MAC/PHY	1:1	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408		
	82562/562E/550	1	MAC/PHY	1:1	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408		
	82559/559ER	1	MAC/PHY	1:1	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 <sup>4</sup>	J409	J8064D628A <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401	JY0-0016 <sup>D</sup>	J408		
	LX1970A/971(ALC)/972A	2	PHY	1:1	H1112	H326	H304	H326	H1112	H326	J3006G21D <sup>5</sup>	J409	J8064D648A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401	JY0-0016 <sup>D</sup>	J408		
LX1973	2	PHY	1:1	H2019 <sup>2</sup>	H327	H304	H327	H2019 <sup>2</sup>	H327	J0C-0003 <sup>4</sup>	J409	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408			
LX1972	1	PHY	1:1	PE-69012 <sup>E</sup>	H304	H304	H304	H2017 <sup>2</sup>	H327	J00-0074 <sup>3</sup>	J414	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408			

**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.**

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. 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** 1byN THT connector cross reference (A=2x4, B=2x6, C=2x8)  
**D. LED** colors (Green/Yellow, Green/Orange/Yellow)  
**E. Low** profile (PCMCIA)

SMT - Surface Mount Package THT - Through Hole Package



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



IC Manu- facturer	IC		Turns Ratio <sup>A</sup>	Single		Dual		Quad		1x1		1xN		2xN		RJ45/USB <sup>7</sup>	
	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
LSI	L80223	1	PHY	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408
	L80225	1	PHY	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408
	L80227	1	PHY	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 <sup>4</sup>	J409	J8064D648A <sup>6</sup>	J404	J20 Series	J401		
				H2019 <sup>2</sup>	H327	H303	H327	H2017 <sup>2</sup>	H327	J3006G21D <sup>5</sup>	J409	J8064D688A <sup>6</sup>	J404				
Marvell				H1012	H304	H304	H304	H2017 <sup>2</sup>	H327	JOC-0003 <sup>4</sup>	J409						
	88E6021	3	PHY	PE-69012 <sup>E</sup>	H304	H304	H325	H1183	H325	JK0654218Z	J411						
	88E6051	5	PHY	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E64 <sup>6</sup>	J404	J2045H3A C	J401	JW0-0009 <sup>D</sup>	J408
	88E6060/88E6218	5/6	PHY	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006F21 <sup>3</sup>	J402	J8064E68 <sup>6</sup>	J404	J2045H3B C	J401	JY0-0016 <sup>D</sup>	J408
	88E6062, 88E6063	5/6/7	PHY	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 <sup>4</sup>	J409	J8064D648A <sup>6</sup>	J404	J2045H3C C	J401		
	88E3081/3082/3083	8	PHY	H2019 <sup>2</sup>	H327	H2006A <sup>2</sup>	H327	H2017 <sup>2</sup>	H327	J3006G21D <sup>5</sup>	J409	J8064D688A <sup>6</sup>	J404				
	88E6083	10	Switch	PE-69012 <sup>E</sup>	H304	H304	H325	H1183	H325	JOC-0003 <sup>4</sup>	J409						
	88E6095	8	Switch	H1183	H325	H325	H325	H1183	H325	JK0654218Z	J411						
MICREL	KS8721B/21BL/37	1	PHY	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408
	KS8993/8993M/8993F	3	MAC/PHY	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404			JY0-0016 <sup>D</sup>	J408
	KS8737	1	PHY	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 <sup>4</sup>	J409	J8064D648A <sup>6</sup>	J404				
				H2019 <sup>2</sup>	H327	H2006A <sup>2</sup>	H327	H2017 <sup>2</sup>	H327	J3006G21D <sup>5</sup>	J409	J8064D688A <sup>6</sup>	J404				
				PE-69012 <sup>E</sup>	H304	H304	H325	H1183	H325	JOC-0003 <sup>4</sup>	J409						
MicroLinear	KS8695P	5	PHY	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E64 <sup>6</sup>	J404	J2045H3A C	J401	JW0-0009 <sup>D</sup>	J408
	KS8995/95M/95MA/95E	5	MAC/PHY	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006F21 <sup>3</sup>	J402	J8064E68 <sup>6</sup>	J404	J2045H3B C	J401	JY0-0016 <sup>D</sup>	J408
	KS8995X	5	MAC/PHY	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 <sup>4</sup>	J409	J8064D648A <sup>6</sup>	J404	J2045H3C C	J401		
	KS8997/KS8998	8	MAC/PHY	H2019 <sup>2</sup>	H327	H2006A <sup>2</sup>	H327	H2017 <sup>2</sup>	H327	J3006G21D <sup>5</sup>	J409	J8064D688A <sup>6</sup>	J404				
	KS8999	9	MAC/PHY	PE-69012 <sup>E</sup>	H304	H304	H325	H1183	H325	JOC-0003 <sup>4</sup>	J409						
Myson	ML6652	1	AutoMDX	H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408
	MTD971	1	PHY	H1260	H600	H2005A <sup>2</sup>	H327	H1259	H600	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404			JY0-0016 <sup>D</sup>	J408
	MTD972	1	PHY	HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	H327	HX1234 <sup>1</sup>	H328	JV006I21 <sup>4</sup>	J409	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408
	MTD981	1	PHY	H2019 <sup>2</sup>	H327	H2009 <sup>2</sup>	H327	H2017 <sup>2</sup>	H327	J3006G21D <sup>5</sup>	J409	J8064D688A <sup>6</sup>	J404			JY0-0016 <sup>D</sup>	J408
Mysticom	MnystPHY110	1	PHY	PE-69012 <sup>E</sup>	H304	H304	H325	H1183	H325	JOC-0003 <sup>4</sup>	J409						
				H1102	H325	H1270	H322	H1164 <sup>2</sup>	H328	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408

- Extended** temperature single port discrete magnetic cross reference
- PoE / VoIP** single port discrete magnetic cross reference
- Single** port THT tab-up/down connector cross reference
- Single** port SMT tab-down connector cross reference
- Single** port SMT tab-up connector cross reference
- Multiport** 1byN THT tab-down connector cross reference
- RJ45/USB** single port THT tab-up connector cross reference

- RX** turns ratio is 1:1, TX turns ratio is 1:1, unless otherwise specified.
- One** part is identified in this cross reference. Multiple parts with different platforms can be found on the referenced data sheet.
- Multiport** 2byN THT connector cross reference (A=2x4, B=2x6, C=2x8)
- LED** colors (Green/Yellow, Green/Orange/Yellow)
- 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 10/100BASE-TX IC CROSS REFERENCE (continued)

RJ45 & RJ45/USB PLATFORMS B

DISCRETE COMPONENTS

IC Manu- facturer	IC		Turns Ratio <sup>A</sup>	TX	Single Part Number	Data Sheet	Dual Part Number	Quad Part Number	1x1 Part Number	Data Sheet	1xN Part Number	Data Sheet	2xN Part Number	Data Sheet	RJ45/USB <sup>7</sup> Part Number	Data Sheet
	Part Number	Ports														
National Semiconductor	DP83847	1	PHY	1:1	H1102	H325	H1270	H1164.2	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408
	DP83848	1	PHY	1:1	H1012	H303	HX1294	H1036L	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408
	DP83816 (macphyter II)	1	MAC/PHY	1:1	H1260	H600	HX1148	H2005A.2	H1259	H1259	H600	J1006D21 <sup>6</sup>	J402	J20 Series	J401	JY0-0016 <sup>D</sup>
Realtek	RTL8100C/101L/100B	1	Controller	1:1	H1102	H325	H1270	H1164.2	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408
	RTL8139/B/C/CL	1	Controller	1:1	H1260	H600	H2005A.2	H1259	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408
	RTL8150	1	Controller	1:1	H1251	H600	H2009.2	HX1234.1	JV006I21 <sup>4</sup>	J409	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408
	RTL8201C/L/8201BL	1	PHY	1:1	H1281	H600	H2009.2	HX1234.1	J3006G21D <sup>5</sup>	J409	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408
	RTL8019AS	1	Controller	1:1	HX1188.1	H325	H2009.2	H2017.2	J0C-0003.4	J409	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408
	RTL8181/86	1	Controller	1:1	H2019.2	H327	H2009.2	H2017.2	J0026D01B <sup>3</sup>	J403	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408
	RTL8208	8	PHY	1:1	PE-69012 E	H304	H2009.2	H2017.2	J1012F01C <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408
	RTL8308	8	Controller	1:1	H0019	H304	H2009.2	H2017.2	J3011G21D <sup>5</sup>	J409	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408
	RTL8309	9	Controller	1:1	H1112	H326	H2009.2	H2017.2	J1011F01P <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 <sup>D</sup>	J408
SIS	RTL8208	8	PHY	1:1	H1102	H325	H1260	H1164.2	J0006D21 <sup>3</sup>	J403	J8064E64 <sup>6</sup>	J404	J2045H3A C	J401	JW0-0009 C	J408
	RTL8316	16	Controller	1:1	H1260	H600	H2005A.2	H1259	J1006F21 <sup>3</sup>	J402	J8064E68 <sup>6</sup>	J404	J2045H3B C	J401	JY0-0016 D	J408
SMSC	SIS900	1	MAC/PHY	1:1	H1102	H325	H1270	H1164.2	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 D	J408
	LAN83C183/185	1	PHY	1:1	H1260	H600	H2005A.2	H1259	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 D	J408
	LAN91C100FD/110	1	Controller	1:1	HX1188.1	H325	H2009.2	H2017.2	JV006I21 <sup>4</sup>	J409	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 D	J408
SMSC	LAN91C36	1	Controller	1:1	H2019.2	H327	H2009.2	H2017.2	J3006G21D <sup>5</sup>	J409	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 D	J408
	LAN91C111	1	PHY	1:1	PE-69012 E	H304	H2009.2	H2017.2	J0C-0003.4	J409	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 D	J408
SMSC	LAN91C111	1	PHY	1:1	PE-69012 E	H304	H2009.2	H2017.2	J0026D21 <sup>3</sup>	J403	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 D	J408
	LAN9115	1	PHY	1:1	J0011D21 B	H304	H2009.2	H2017.2	J0011D21 B	J403	J8064D628A <sup>6</sup>	J404	J20 Series	J401	JY0-0016 D	J408

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- Extended** temperature single port discrete magnetic cross reference
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- Single** port SMT tab-up/down connector cross reference
- Single** port SMT tab-up connector cross reference
- Multiport** 1byN THT tab-down connector cross reference
- RJ45/USB** single port THT tab-up connector cross reference

- RX** turns ratio is 1:1, TX turns ratio is 1:1, unless otherwise specified.
- One** part is identified in this cross reference. Multiple parts with different platforms can be found on the referenced data sheet.
- Multiport** 2byN THT connector cross reference (A=2x4, B=2x6, C=2x8)
- LED** colors (Green/Yellow, Green/Orange/Yellow)
- Low** profile (PCMCIA)

SMT - Surface Mount Package    THT - Through Hole Package



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



DISCRETE COMPONENTS										RJ45 & RJ45/USB PLATFORMS <sup>B</sup>					
IC Manufacturer	IC		Turns Ratio <sup>A</sup>	Single Part Number	Dual Part Number	Quad Part Number	1x1		1xN		2xN		RJ45/USB Part Number	Data Sheet	
	Part Number	Ports					Data Sheet	Part Number	Data Sheet	Part Number	Data Sheet	Part Number			Data Sheet
Teridian (TDK)	78P2123	1	1:1	H1102	H1270	H322	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408	
	78Q2123	1	1:1	H1260	H2005A <sup>2</sup>	H327	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404			JY0-0016 <sup>D</sup>	J408	
				HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	JV006I21 <sup>4</sup>	J409							
				H2019 <sup>2</sup>	H327		J3006G21D <sup>5</sup>	J409							
				PE-69012 <sup>E</sup>	H304		J0C-0003 <sup>4</sup>	J409							
Texas Instruments	TPS2370/2375	1	1:1	H1102	H1270	H322	J0006D21 <sup>3</sup>	J403	J8064E62 <sup>6</sup>	J404	J20 Series	J401	JW0-0009 <sup>D</sup>	J408	
				H1260	H2005A <sup>2</sup>	H327	J1006F21 <sup>3</sup>	J402	J8064D628A <sup>6</sup>	J404			JY0-0016 <sup>D</sup>	J408	
				HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	JV006I21 <sup>4</sup>	J409							
				H2019 <sup>2</sup>	H327		J3006G21D <sup>5</sup>	J409							
				PE-69012 <sup>E</sup>	H304		J0C-0003 <sup>4</sup>	J409							
Zarlink (Plessey/Mitel)	MT933	1	1:1	H1102	H1270	H322	J0006D21 <sup>3</sup>	J403	J8064E64 <sup>6</sup>	J404	J2045H3A <sup>C</sup>	J401	JW0-0009 <sup>D</sup>	J408	
				H1260	H2005A <sup>2</sup>	H327	J1006F21 <sup>3</sup>	J402	J8064E68 <sup>6</sup>	J404	J2045H3B <sup>C</sup>	J401	JY0-0016 <sup>D</sup>	J408	
				HX1188 <sup>1</sup>	H325	H2009 <sup>2</sup>	JV006I21 <sup>4</sup>	J409	J8064D648A <sup>6</sup>	J404	J2045H3C <sup>C</sup>	J401			
				H2019 <sup>2</sup>	H327		J3006G21D <sup>5</sup>	J409	J8064D688A <sup>6</sup>	J404					
				PE-69012 <sup>E</sup>	H304		J0C-0003 <sup>4</sup>	J409							

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- Multiport** 1byN THT tab-down connector cross reference
- RJ45/USB** single port THT tab-up connector cross reference

- RX** turns ratio is 1:1, TX turns ratio is 1:1, unless otherwise specified.
- One** part is identified in this cross reference. Multiple parts with different platforms can be found on the referenced data sheet.
- Multiport** 2byN THT connector cross reference (A=2x4, B=2x6, C=2x8)
- LED** colors (Green/Yellow, Green-Orange/Yellow)
- 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 10BASE-T IC CROSS REFERENCE (continued)



## DISCRETE COMPONENTS

IC Manufacturer	IC Part No.	Pulse Part No.	Ports Supported	Configuration <sup>1</sup>		Turns Ratio <sup>2</sup>		Package		Data Sheet	
				TX	RX	TX	RX	Style <sup>3</sup>	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,	J00-0025	Single	T, C	T, C	1CT:2.5	1CT:1	1x1 ICM	21.59 / 16.26 / 13.84 <sup>4</sup>	J414	
	AM79C965, AM79C970,	PE-68017S	Single Port	F, T, C	F, T, C	1CT:1	1CT:1	SIL	1.000 / .210 / .450	E104	
	AM79C971, AM79C981,	SF1012	Single Port	F, T, C	F, T, C	1:1	1:1	SMT	1.010 / .380 / .246	SF1012	
	AM79C982, AM79C983,	PE-68026	Single Port	F, T, C	F, T, C	1CT:1CT	1CT:1CT	SMT	.930 / .510 / .230	E115	
	AM79C961 (PC net-ISA II)	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,	ST4190T	Quad Port	T, C	T, C	1CT:1CT	1:1	SMT	1.112 / .625 / .230	ST4190T
		AM79C988, AM79C989	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
	AM186CC15DN	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 <sup>4</sup>	J414	
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	
	J00-0025	Single	T, C	T, C	1CT:2.5	1CT:1	1x1 ICM	21.59 / 16.26 / 13.84 <sup>4</sup>	J414		
	CS8900A-CQ3	E2023	Single Port	T, C	T, C	1CT:2.5CT	1CT:1CT	SMT	.500 / .375 / .230	EC100	
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 <sup>4</sup>	J414		
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	
		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 <sup>1</sup>		Turns Ratio <sup>2</sup>		Package		Data Sheet
				TX	RX	TX	RX	Style <sup>3</sup>	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
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
ST4202T	Single Port	T, C	T, C	1CT:2CT	1CT:1CT	SMT	.447 / .360 / .223	ST4202T		
Realtek	RTL8301 RTL8019AS RTL8029AS RTL8301	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	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)

## LAN ATM IC CROSS REFERENCE



## ATM NETWORK COMPONENTS

Speed	IC Manufacturer/ IC Part Number	Pulse Part No.	Ports Supported	Configuration <sup>1</sup>		Turns Ratio <sup>2</sup>		Package		Data Sheet
				TX	RX	TX	RX	Style <sup>3</sup>	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).