



## IC Selection Guide for LAN Fast Ethernet, ATM & Auto MDIX Transformer Modules

IC Manufacturer	IC Part Number	Turns Ratio		Talema part Number			
		Transmit	Receive	Miniature Single Port 12.8 x 9.6 x 6.0	Standard Single Port 20.0 x 12.7 x 5.8	Dual Port 40 Pad Module 28.0 x 16.0 x 5.8	Quad Port 40 Pad Module 28.0 x 16.0 x 5.8
ADMtek	LET406	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J		TEQ-200A-J
	ADM6509	1ct:1ct	1:1				TEQ-200D-J
	ADM9511, ADM9513, AN983, AN985	1ct:1ct	1ct:1ct	TEM-300D-J	TES-300D-J		
AMD	AM79C874	1ct:1ct	1ct:1ct	TEM-300A-J TEM-300K-J	TES-300A-J TES-300K-J	TED-200A-J	
	AM79C875	1ct:1ct	1:1				TEQ-200A-J TEQ-200B-J TEQ-200D-J TEQ-200G-J
	am79c874(NetPHY-1LP)	1.25ct:1ct	1:1	TEM-302D-J	TES-302D-J		
	AM79C971 (PCnet-Fast)	1ct:1ct	1:1	TEM-300A-J	TES-300A-J		
	AM79C973 (PCnet-FAST III)	1ct:1.41ct	1ct:1ct	TEM-300B-J	TES-300B-J		
	AM79C975 (PCnet-FAST III)	1ct:1.41ct	1ct:1ct	TEM-301B-J	TES-301B-J		
	AM79C976, AM79C977	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J		
	Broadcom	BCM5201, BCM5220, BCM5221, BCM5222, BCM5912(Dual)	1ct:1ct	1ct:1ct	TEM-300A-J TEM-300D-J	TES-300A-J TES-300D-J	
BCM5203, BCM5204, BCM5205 BCM5208, BCM5208R, BCM5214, BCM5216, BCM5218, BCM5304 BCM5308		1ct:1ct	1:1				TEQ-200A-J TEQ-200B-J TEQ-200H-J TEQ-200D-J
BCM5226(Hex), BCM5227, BCM5228(Octal), BCM5238, BCM5315, BCM5316, BCM5317, BCM5318, BCM5327		1ct:1ct	1ct:1ct				TEXQ-400N-J
Broadcom (Allayer)	AL1023	1ct:1ct	1:1				TEQ-200H-J
Broadcom (Altima)	AH101	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J	TED-200H-J	
	AH104 AH108	1ct:1ct	1:1				TEQ-200B-J TEQ-200D-J
Broadcom (Davicom)	DM9101, DM9102, DM9111, DM9131, DM9161, DM9181, DM9301, DM9601	1ct:1ct	1ct:1ct	TEM-300A-J TEM-300H-J	TES-300A-J TES-300H-J	TED-200H-J	
		1ct:1ct	1:1				TEQ-200A-J TEQ-200B-J
Cirrus Logic (Crystl)	CS8952	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J	TED-200A-J TED-200H-J	
		1ct:1ct	1:1				TEQ-200A-J TEQ-200B-J
Fujitsu	84222	1ct:1ct	1:1				TEQ-200G-J
ICS	ICS1890, ICS1891 ICS1892, ICS1893	1ct:1ct	1ct:1ct	TEM-300H-J TEM-300D-J	TES-300H-J TES-300D-J		
		1ct:1ct	1:1				TEQ-200A-J TEQ-200B-J
Intel	S82555, S82558 S82559, S82562	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J	TED-200A-J	
		1ct:1ct	1:1				TEQ-200A-J TEQ-200B-J
Intel (Level One)	LXT970A, LXT971, LXT972, LXT973, LXT9761, LXT9762, LXT9781 (Hex/Octal RMII), LXT9782 (Hex/Octal SMI)	1ct:1ct	1ct:1ct	TEM-300A-J TEM-300D-J	TES-300A-J TES-300D-J	TED-200A-J TED-200H-J	
		1ct:1ct	1:1				TEQ-200A-J TEQ-200B-J
	LXT9763 (Hex/MII), LXT986X, LXT988X, LXT9880, LXT988, LXT9863	1ct:1ct	1:1				TEQ-200D-J
	LXT9784	1:1	1:1				TEXQ-400M-J
	LXT980, LXT981, LXT982, LXT983, LXT974A, LXT975A, LXT976X, LXT978X, LXT9785	2ct:1ct	1:1				TEQ-204E-J TEQ-204F-J
		1ct:1ct	1ct:1ct				TEXQ-400N-J
LXT9880	1ct:1ct	1ct:1ct				TEXQ-400N-J	

## IC - Selection Guide for LAN Fast Ethernet, ATM & Auto MDIX Isolation Transformer Modules

IC Manufacturer	IC Part Number	Turns Ratio		Talema part Number			
		Transmit	Receive	Miniature Single Port 12.8 x 9.6 x 6.0	Standard Single Port 20.0 x 12.7 x 5.8	Dual Port 40 Pad Module 28.0 x 16.0 x 5.8	Quad Port 40 Pad Module 28.0 x 16.0 x 5.8
<b>Kendin</b>	KS8728 (2.5V Octal PHY) KS8735 (3.3V Quad HUB) KS8737 (3.3V PHY MII) KS8761 (5V PHY)	1ct:1ct	1ct:1ct	TEM-300A-J TEM-300D-J TEM-300H-J	TES-300A-J TES-300D-J TES-300H-J		TEQ-200H-J
	KS8995 (2.5V, Port Switch)	1ct:1ct	1:1				
<b>Lucent (Enable)</b>	KS8995E	1ct:1ct	1ct:1ct	TEM-300D-J	TES-300D-J		TEXQ-400N-J
	LUC3X04, LUCWX14, LUC3X24, LUC3X51	1ct:1ct	1ct:1ct	TEM-300A-J	TES-200A-J	TED-200A-J TED-200H-J	TEQ-200A-J TEQ-200B-J
	LU1X54, LU2X54, LU3X54	1ct:1ct	1:1				TEQ-200J-J
	LU6612, T8301 (5V), T8302 (3.3V) - VolP	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J		
	LU3X31FT-J80, LU3X31FT-TE80, LU3X31T-T64, LU3X32FT-SE128, LU3X34FT-J160, LU3X36FTR (Hex)	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J	TED-200A-J TED-200H-J	
	LU3X38FTR (Octal)	1ct:1ct	1:1				TEQ-200A-J TEQ-200D-J
	LU3X312FTR (12 Port)	1ct:1ct	1:1				TEQ-200B-J TEQ-200D-J
<b>Macronix</b>	MX715	1ct:1ct	1ct:1ct	TEM-300A-J TEM-300B-J	TES-300A-J TES-300B-J		
<b>Marvell</b>	88E3061, 88E3081, 88E6050	1ct:1ct	1ct:1ct	TEM-300D-J	TES-300D-J		TEXQ-400N-J
	88E6051, 88E6052	1ct:1ct	1ct:1ct	TEM-300D-J	TES-300D-J	TED-200E-J	
<b>MicroLinear</b>	ML6651	1ct:1ct	1ct:1ct	TEM-300H-J	TES-300H-J		
	ML6673	1ct:1ct	1ct:1ct	TEM-300H-J	TES-300H-J	TED-200H-J	TEQ-200A-J TEQ-200B-J
	ML6692, ML6694 ML6697, ML6698	2ct:1ct 2ct:1	1:1:1ct	TEM-304G-J TEM-304J-J	TES-304G-J TES-304J-J		
<b>Mitel (Plessy)</b>	NWK937, NWK939, NWK954	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J	TED-200A-J TED-200H-J	
		1ct:1ct	1:1				TEQ-200A-J TEQ-200B-J
<b>Myson</b>	MTD971	1ct:1ct	1ct:1ct	TEM-300A-J TEM-300B-J	TES-300A-J TES-300B-J		
		1ct:1ct	1:1				TEQ-200A-J
<b>Mysticom</b>	MystiPHY110	1ct:1ct	1ct:1ct	TEM-300B-J TEM-300D-J	TES-300B-J TED-300D-J		
<b>National Semiconductor</b>	DP83843(Phyter), DP83815 (MacPhyter), DP83846A (DsPhyter)	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J		
	DP83223 (Twister)	1ct:1ct	1ct:1ct			TED-200B-J TED-200H-J	
		1ct:1ct	1:1				TEQ-200A-J TEQ-200B-J
<b>Realtek</b>	RTL8139, RTL8201	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J		
	RTL8139B	1ct:1ct	1ct:1ct	TEM-300A-J TEM-300B-J	TES-300A-J TES-300B-J		
	RTL8139C (3.3 V)	1ct:1ct	1ct:1ct	TEM-300B-J	TES-300B-J		
	RTL8305S, RTL8100B	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J		
		1ct:1ct	1:1				TEQ-200G-J
	RTL8204	1ct:1ct	1:1				TEQ-300G-J
<b>LSI (SEEQ)</b>	80220, 80221	2ct:1 2ct:1ct	1ct:1ct	TEM-304F-J TEM-304D-J	TES-304F-J TES-304D-J		
	80223, 80225	1ct:1ct	1ct:1ct	TEM-300B-J TEM-300D-J	TES-300B-J TES-300D-J		
	84220, 84225, 84221	1ct:1ct	1:1				TEQ-200A-J TEQ-200B-J TEQ-200D-J



## IC Selection Guide for LAN Fast Ethernet, ATM & Auto MDIX Transformer Modules

IC Manufacturer	IC Part Number	Turns Ratio		Talema part Number			
		Transmit	Receive	Miniature Single Port 12.8 x 9.6 x 6.0	Standard Single Port 20.0 x 12.7 x 5.8	Dual Port 40 Pad Module 28.0 x 16.0 x 5.8	Quad Port 40 Pad Module 28.0 x 16.0 x 5.8
SIS	SIS960	1ct:1ct	1ct:1ct	TEM-300A-J TEM-300B-J TEM-300D-J	TES-300A-J TES-300B-J TES-300D-J		
SMSC	LAN83C180, LAN83C183, LAN83C190	1ct:1ct	1ct:1ct	TEM-300A-J TEM-300B-J TEM-300D-J	TES-300A-J TES-300B-J TES-300D-J		
Sundance Technology	ST100 (100BTX PMD PHY) ST101 (Fast Ethernet Media Converter)	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J		
Tamarack	6043	1ct:1ct	1:1				TEQ-200A-J
TDK	TSC78Q2120	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J	TED-200A-J TED-200H-J	
		1ct:1ct	1:1				TEQ-200A-J TEQ-200B-J
Texas Instruments	TNETE2101, TNETE2104	1ct:1ct	1ct:1ct	TEM-300A-J TEM-300D-J	TES-300A-J TES-300D-J	TED-200A-J TED-200H-J	
		1ct:1ct	1:1				TEQ-200A-J TEQ-200B-J
Topic	TP100, TP110	1ct:1ct	1ct:1ct			TED-200H-J	
		1ct:1ct	1:1				TEQ-200D-J

### ATM Network Interface Transformer Modules

Novacom	25.6 ATM	NOV25PMD6	2ct:1	1:1	UTM-3000-J			
LSI (SEEQ)		93C95	2ct:1	1:1	UTM-3000-J			
National		83223	1ct:1ct	1ct:1ct	TEM-300H-J	TES-300H-J		
µLinear		ML6674	1ct:1ct	1ct:1ct	TEM-300A-J	TES-300A-J		
PMC Sierra	155 ATM	PM5350	1ct:1ct	1ct:1ct	TEM-300H-J TEM-300A-J	TES-300H-J TES-300A-J	TED-200G-J TED-200H-J TED-200B-J	
			1ct:1	1ct:1ct				TEQ-200A-J TEQ-200B-J

### Auto MDI/MDIX Transformer Modules

Broadcom	BCM5226 (Hex), BCM5227, BCM5238, BCM5228 (Octal), BCM5315, BCM5316, BCM5317, BCM5318, BCM5327	1ct:1ct	1ct:1ct					TEXQ-400N-J
Intel (Level One)	LXT9784	1:1	1:1					TEXQ-400M-J
	LXT980, LXT981, LXT982, LXT983, LXT974A, LXT975A, LXT976X, LXT978X, LXT9785, LXT9880	1ct:1ct	1ct:1ct					TEXQ-400N-J
Kendin	KS8995E	1ct:1ct	1ct:1ct					TEXQ-400N-J
Marvell	88E3061, 88E3081, 88E6050	1ct:1ct	1ct:1ct					TEXQ-400N-J

## Sales & Marketing, Design and Manufacturing Facilities

<http://www.talema-nuvotem.com>

**Eastern Europe & Czech Republic**  
NT MAGNETICS s.r.o.  
Chebská 27  
322 00 Plzeň  
Tel: Int. + 420 377 - 338 351  
Fax: Int. + 420 377 - 338 350  
Email: [talema@talema.cz](mailto:talema@talema.cz)  
Web Site: [www.ntmagnetics.cz](http://www.ntmagnetics.cz)

**Germany**  
TALEMA ELEKTRONIK GMBH  
Sembdnerstr. 5, Postfach 2523  
82110 Germering  
Tel: Int. + 49 89 - 841 00 - 0  
Fax: Int. + 49 89 - 841 00 25  
Email: [info@talema.de](mailto:info@talema.de)

**Ireland**  
NUVOTEM TEO.  
Crollly  
Co. Donegal  
Tel: Int. + 353 74 - 954 8666  
Fax: Int. + 353 74 - 954 8139  
Email: [info@nuvotem.com](mailto:info@nuvotem.com)

**India**  
TALEMA ELECTRONIC PVT. LTD.  
Opposite the SIDCO Industrial Estate  
Gins Towers  
4/5S.H/1, Omalur Main Road  
Salem - 636 004, Tamil Nadu  
Tel: Int. + 91 427 - 244 1325  
Fax: Int. + 91 427 - 243 0034  
E-mail: [talema@talemaindia.com](mailto:talema@talemaindia.com)  
Web Site: [www.talemaindia.com](http://www.talemaindia.com)