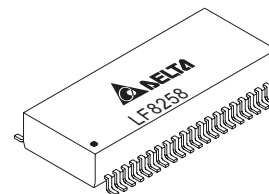




## FAST ETHERNET 10BASE-T/100BASE-TX TRANSFORMER MODULES

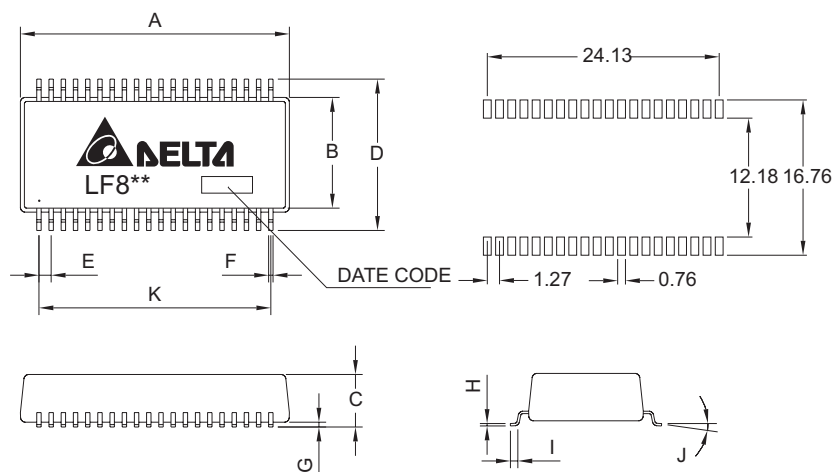
# Networking Components



### ELECTRICAL CHARACTERISTICS @25°C

Rise Time & Fall Time @5.0ns (Max), Hi-Pot Test @60Sec, 1500Vrms, OCL @8mA DC Bias 350uH (Min)														
Model	Insertion Loss (dB Max)	Return Loss (dB Min)				Cross Talk (dB Min)				Com. To Com. Rejection Ratio (dB Min)		Diff. To Com. Mode Rejection (dB Min)		Turns Ratio TX/RX (±5%)
	1~100	2~30	40	50	60~80	1	30	60	100	1~60	60~100	1~60	60~100	1
	MHz	MHz				MHz				MHz		MHz		MHz
LF8258	-1.0	-18	-17	-14.5	-12	-65	-55	-45	-35	-40	-30	-40	-30	1:1 / 1:1
LF8264	-1.0	-18	-17	-14.5	-12	-65	-55	-45	-35	-40	-30	-40	-30	1:1 / 1:1
LF8702	-1.0	-18	-16	-12.0	-10	-65	-55	-45	-35	-40	-30	-40	-30	2:1 / 1:1
LF8703	-1.0	-18	-16	-12.0	-10	-65	-55	-45	-35	-40	-30	-40	-30	1:1.414 / 1:1
LF8707	-1.0	-18	-17	-14.5	-12	-65	-55	-45	-35	-40	-30	-40	-30	1:1 / 1:1
LF8708	-1.0	-18	-17	-14.5	-12	-65	-55	-45	-35	-40	-30	-40	-30	1:1 / 1:1
LF8715	-1.0	-18	-16	-12.0	-10	-65	-55	-45	-35	-40	-30	-40	-30	1.414:1 / 1:1
LF8725B	-1.0	-18	-16	-12.0	-10	-65	-55	-45	-35	-40	-30	-40	-30	1.25:1 / 1:1
LF8726	-1.0	-18	-16	-12.0	-10	-65	-55	-45	-35	-40	-30	-40	-30	2:1 / 1:1
LF8731	-1.0	-18	-17	-14.5	-12	-65	-55	-45	-35	-40	-30	-40	-30	1:1 / 1:1
LF8737	-1.0	-18	-17	-14.5	-12	-65	-55	-45	-35	-40	-30	-40	-30	1:1 / 1:1
LF8741	-1.0	-18	-17	-14.5	-12	-65	-55	-45	-35	-40	-30	-40	-30	1:1 / 1:1

### MECHANICAL CONSTRUCTION



UNIT : mm / inch

A = 28.00 ± 0.254 / 1.102 ± 0.010  
B = 12.00 ± 0.254 / 0.472 ± 0.010  
C = 5.80 ± 0.254 / 0.228 ± 0.010  
D = 16.00 ± 0.254 / 0.630 ± 0.010  
E = 1.27 / 0.050 (TYP)  
F = 0.46 ± 0.127 / 0.018 ± 0.005  
G = 0.254 ± 0.127 / 0.010 ± 0.005  
H = 0.254 / 0.010 (TYP)  
I = 1.00 ± 0.254 / 0.039 ± 0.010  
J = 0° ~ 8°  
K = 24.13 / 0.950 (TYP)

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(TAOYUAN PLANT CPBG) 252, SAN YING ROAD, KUEI SAN INDUSTRIAL ZONE, TAOYUAN SHIEN, TAIWAN, R.O.C.

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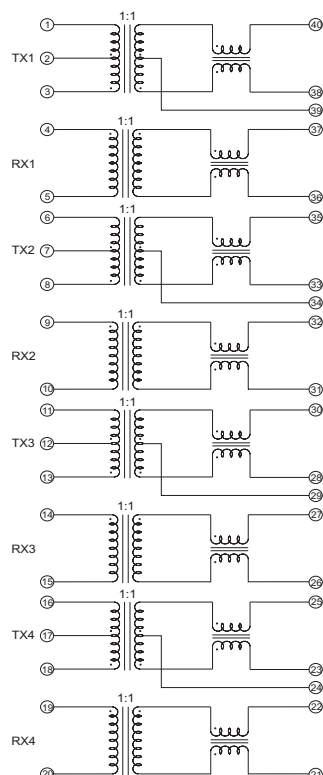


## FAST ETHERNET 10BASE-T/100BASE-TX TRANSFORMER MODULES

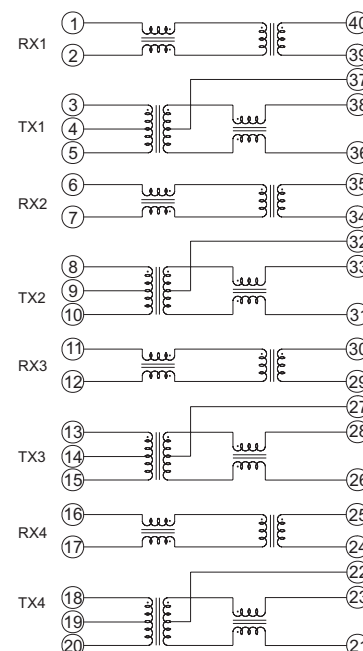
# Networking Components

## SCHEMATICS

LF8258



LF8264, LF8702, LF8703, LF8715



## PIN ASSIGNMENT

Port 1

Pin Name	Pin#	Pin#	Pin Name
TD+1	3	38	TX+1
TCT 1	2	39	CMT 1
TD-1	1	40	TX-1
RD+1	4	37	RX+1
RX-1	5	36	RX-1

Port 3

Pin Name	Pin#	Pin#	Pin Name
TD+3	13	28	TX+3
TCT 3	12	29	CMT 3
TD-3	11	30	TX-3
RD+3	14	27	RX+3
RD-3	15	26	RX-3

Port 2

Pin Name	Pin#	Pin#	Pin Name
TD+2	8	33	TX+2
TCT 2	7	34	CMT 2
TD-2	6	35	TX-2
RD+2	9	32	RX+2
RX-2	10	31	RX-2

Port 4

Pin Name	Pin#	Pin#	Pin Name
TD+4	18	23	TX+4
TCT 4	17	24	CMT 4
TD-4	16	25	TX-4
RD+4	19	22	RX+4
RD-4	20	21	RX-4

## PIN ASSIGNMENT

Port 1

Pin Name	Pin#	Pin#	Pin Name
TD+1	3	38	TX+1
TCT 1	4	37	CMT 1
TD-1	5	36	TX-1
RD+1	1	40	RX+1
RX-1	2	39	RX-1

Port 3

Pin Name	Pin#	Pin#	Pin Name
TD+3	13	28	TX+3
TCT 3	14	27	CMT 3
TD-3	15	26	TX-3
RD+3	11	30	RX+3
RD-3	12	29	RX-3

Port 2

Pin Name	Pin#	Pin#	Pin Name
TD+2	8	33	TX+2
TCT 2	9	32	CMT 2
TD-2	10	31	TX-2
RD+2	6	35	RX+2
RX-2	7	34	RX-2

Port 4

Pin Name	Pin#	Pin#	Pin Name
TD+4	18	23	TX+4
TCT 4	19	22	CMT 4
TD-4	20	21	TX-4
RD+4	16	25	RX+4
RD-4	17	24	RX-4

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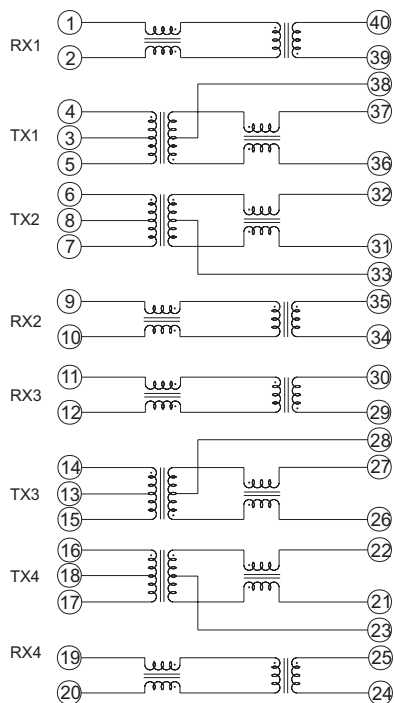


## FAST ETHERNET 10BASE-T/100BASE-TX TRANSFORMER MODULES

# Networking Components

## SCHEMATICS

LF8707



## PIN ASSIGNMENT

Port 1

Pin Name	Pin#	Pin#	Pin Name
TD+1	4	36	TX+1
TCT 1	3	38	CMT 1
TD-1	5	37	TX-1
RD+1	1	39	RX+1
RD-1	2	40	RX-1

Port 3

Pin Name	Pin#	Pin#	Pin Name
TD+3	14	26	TX+3
TCT 3	13	28	CMT 3
TD-3	15	27	TX-3
RD+3	11	29	RX+3
RD-3	12	30	RX-3

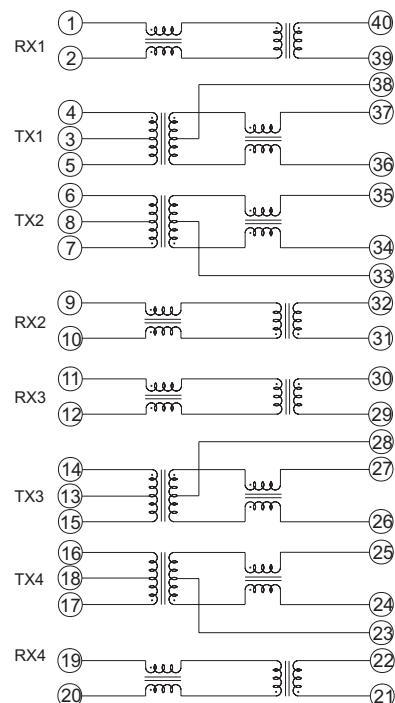
Port 2

Pin Name	Pin#	Pin#	Pin Name
TD+2	6	32	TX+2
TCT 2	8	33	CMT 2
TD-2	7	31	TX-2
RD+2	9	35	RX+2
RX-2	10	34	RX-2

Port 4

Pin Name	Pin#	Pin#	Pin Name
TD+4	16	22	TX+4
TCT 4	18	23	CMT 4
TD-4	17	21	TX-4
RD+4	19	25	RX+4
RD-4	20	24	RX-4

LF8708



## PIN ASSIGNMENT

Port 1

Pin Name	Pin#	Pin#	Pin Name
TD+1	4	37	TX+1
TCT 1	3	38	CMT 1
TD-1	5	36	TX-1
RD+1	1	40	RX+1
RD-1	2	39	RX-1

Port 3

Pin Name	Pin#	Pin#	Pin Name
TD+3	14	27	TX+3
TCT 3	13	28	CMT 3
TD-3	15	26	TX-3
RD+3	11	30	RX+3
RD-3	12	29	RX-3

Port 2

Pin Name	Pin#	Pin#	Pin Name
TD+2	7	34	TX+2
TCT 2	8	33	CMT 2
TD-2	6	35	TX-2
RD+2	10	31	RX+2
RD-2	9	32	RX-2

Port 4

Pin Name	Pin#	Pin#	Pin Name
TD+4	17	24	TX+4
TCT 4	18	23	CMT 4
TD-4	16	25	TX-4
RD+4	20	21	RX+4
RD-4	19	22	RX-4

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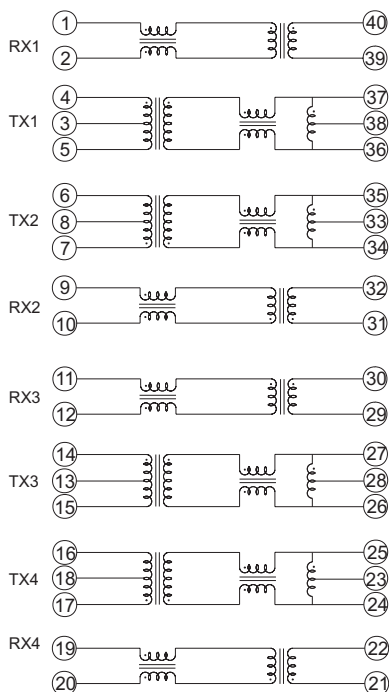


## FAST ETHERNET 10BASE-T/100BASE-TX TRANSFORMER MODULES

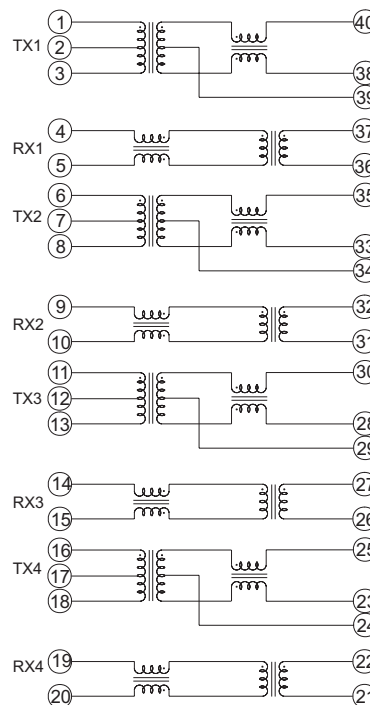
# Networking Components

## SCHEMATICS

LF8725B



LF8726, LF8737



## PIN ASSIGNMENT

Port 1

Pin Name	Pin#	Pin#	Pin Name
TD+1	4	.....37	TX+1
TCT 1	3	.....38	CMT 1
TD-1	5	.....36	TX-1
RD+1	1	.....40	RX+1
RD-1	2	.....39	RX-1

Port 3

Pin Name	Pin#	Pin#	Pin Name
TD+3	14	.....27	TX+3
TCT 3	13	.....28	CMT 3
TD-3	15	.....26	TX-3
RD+3	11	.....30	RX+3
RD-3	12	.....29	RX-3

Port 2

Pin Name	Pin#	Pin#	Pin Name
TD+2	7	.....34	TX+2
TCT 2	8	.....33	CMT 2
TD-2	6	.....35	TX-2
RD+2	10	.....31	RX+2
RX-2	9	.....32	RX-2

Port 4

Pin Name	Pin#	Pin#	Pin Name
TD+4	17	.....24	TX+4
TCT 4	18	.....23	CMT 4
TD-4	16	.....25	TX-4
RD+4	20	.....21	RX+4
RD-4	19	.....22	RX-4

## PIN ASSIGNMENT

Port 1

Pin Name	Pin#	Pin#	Pin Name
TD+1	1	.....40	TX+1
TCT 1	2	.....39	CMT 1
TD-1	3	.....38	TX-1
RD+1	4	.....37	RX+1
RD-1	5	.....36	RX-1

Port 3

Pin Name	Pin#	Pin#	Pin Name
TD+3	11	.....30	TX+3
TCT 3	12	.....29	CMT 3
TD-3	13	.....28	TX-3
RD+3	14	.....27	RX+3
RD-3	15	.....26	RX-3

Port 2

Pin Name	Pin#	Pin#	Pin Name
TD+2	6	.....35	TX+2
TCT 2	7	.....34	CMT 2
TD-2	8	.....33	TX-2
RD+2	9	.....32	RX+2
RX-2	10	.....31	RX-2

Port 4

Pin Name	Pin#	Pin#	Pin Name
TD+4	16	.....25	TX+4
TCT 4	17	.....24	CMT 4
TD-4	18	.....23	TX-4
RD+4	19	.....22	RX+4
RD-4	20	.....21	RX-4

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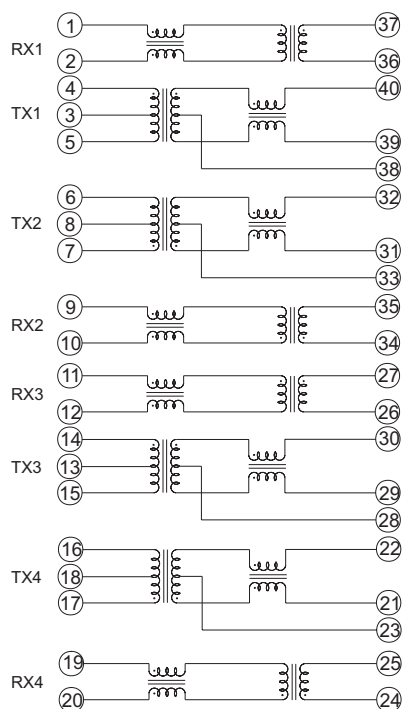


## FAST ETHERNET 10BASE-T/100BASE-TX TRANSFORMER MODULES

# Networking Components

### SCHEMATICS

LF8741



### PIN ASSIGNMENT

Port 1

Pin Name	Pin#	Pin#	Pin Name
TD+1	4	.....40	TX+1
TCT 1	3	.....38	CMT 1
TD-1	5	.....39	TX-1
RD+1	1	.....37	RX+1
RD-1	2	.....36	RX-1

Port 3

Pin Name	Pin#	Pin#	Pin Name
TD+3	14	.....30	TX+3
TCT 3	13	.....28	CMT 3
TD-3	15	.....29	TX-3
RD+3	11	.....27	RX+3
RD-3	12	.....26	RX-3

Port 2

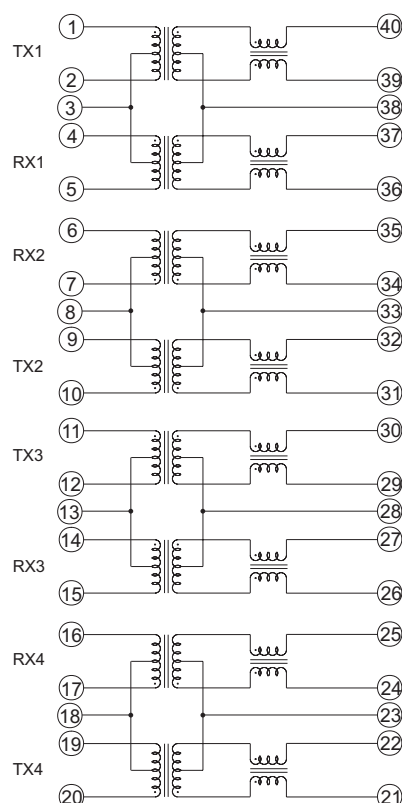
Pin Name	Pin#	Pin#	Pin Name
TD+2	7	.....31	TX+2
TCT 2	8	.....33	CMT 2
TD-2	6	.....32	TX-2
RD+2	10	.....34	RX+2
RX-2	9	.....35	RX-2

Port 4

Pin Name	Pin#	Pin#	Pin Name
TD+4	17	.....21	TX+4
TCT 4	18	.....23	CMT 4
TD-4	16	.....22	TX-4
RD+4	20	.....24	RX+4
RD-4	19	.....25	RX-4

### FOR AUTO MDI/MDIX APPLICATIONS

LF8731



### PIN ASSIGNMENT

Port 1

Pin Name	Pin#	Pin#	Pin Name
TD+1	1	.....40	TX+1
TCT 1	3	.....38	CMT 1
TD-1	2	.....39	TX-1
RD+1	4	.....37	RX+1
RD-1	5	.....36	RX-1

Port 3

Pin Name	Pin#	Pin#	Pin Name
TD+3	11	.....30	TX+3
TCT 3	13	.....28	CMT 3
TD-3	12	.....29	TX-3
RD+3	14	.....27	RX+3
RD-3	15	.....26	RX-3

Port 2

Pin Name	Pin#	Pin#	Pin Name
TD+2	10	.....31	TX+2
TCT 2	8	.....33	CMT 2
TD-2	9	.....32	TX-2
RD+2	7	.....34	RX+2
RX-2	6	.....35	RX-2

Port 4

Pin Name	Pin#	Pin#	Pin Name
TD+4	20	.....21	TX+4
TCT 4	18	.....23	CMT 4
TD-4	19	.....22	TX-4
RD+4	17	.....24	RX+4
RD-4	16	.....25	RX-4

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