3.3 V / 5 V ECL Differential Receiver/Driver with Internal Termination

Description

The EP16T is a world–class differential receiver/driver. The device is functionally equivalent to the EP16 with internal termination resistors. A 50 Ω resistor is connected from the D input to the VT pin and from the \overline{D} input to the \overline{VT} pin. Tie the VT and \overline{VT} pins to VTT supply (V $_{CC}$ – 2 V) for parallel termination or connect VT and \overline{VT} pins for 100 Ω input series termination.

Special considerations are required for differential inputs under No Signal conditions to prevent instability.

The 100 Series contains temperature compensation.

Features

- 220 ps Typical Propagation Delay
- Maximum Frequency > 3 GHz Typical
- PECL Mode Operating Range:
 - $V_{CC} = 3.0 \text{ V}$ to 5.5 V with $V_{EE} = 0 \text{ V}$
- NECL Mode Operating Range:
 - $V_{CC} = 0 \text{ V}$ with $V_{EE} = -3.0 \text{ V}$ to -5.5 V
- Internal 50 Ω Termination Resistors
- These Devices are Pb-Free, Halogen Free and are RoHS Compliant



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TSSOP-8 DT SUFFIX CASE 948R-02



DFN-8 MN SUFFIX CASE 506AA

MARKING DIAGRAMS*













H = MC10

= Assembly Location

= Pb-Free Package

K = MC100 5M = MC10 L = Wafer Lot Y = Year

3D = MC100 M = Date Code

1

W = Work Week

(Note: Microdot may be in either location)

*For additional marking information, refer to Application Note <u>AND8002/D</u>.

ORDERING INFORMATION

See detailed ordering and shipping information on page 8 of this data sheet.

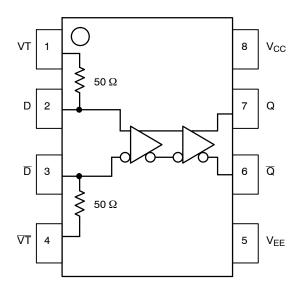


Table 1. PIN DESCRIPTION

PIN	FUNCTION
D, \overline{D}	ECL Data Inputs
Q, \overline{Q}	ECL Data Outputs
V _{CC}	Positive Supply
V_{EE}	Negative Supply
VT	50 Ω Termination Resistor to D
VT	50 Ω Termination Resistor to \overline{D}
ΕP	(DFN-8 only) Thermal exposed pad must be connected to a sufficient thermal conduit. Electrically connect to the most negative supply (GND) or leave unconnected, floating open.

Figure 1. 8-Lead Pinout (Top View) and Logic Diagram

Table 2. ATTRIBUTES

Characteristics	Value
Internal Input Pulldown Resistor	N/A
Internal Input Pullup Resistor	N/A
ESD Protection Human Body Model Machine Model Charged Device Model	> 4 kV > 200 V > 2 kV
Moisture Sensitivity, Indefinite Time Out of Drypack (Note 1)	Pb-Free Pkg
SOIC-8 NB TSSOP-8 DFN-8	Level 1 Level 3 Level 1
Flammability Rating Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in
Transistor Count	167 Devices
Meets or exceeds JEDEC Spec EIA/JESD78 IC Latchup Test	

^{1.} For additional information, see Application Note AND8003/D

Table 3. MAXIMUM RATINGS

Symbol	Parameter	Condition 1	Condition 2	Rating	Unit
V _{CC}	PECL Mode Power Supply	V _{EE} = 0 V		6	V
V _{EE}	NECL Mode Power Supply	V _{CC} = 0 V		-6	V
VI	PECL Mode Input Voltage NECL Mode Input Voltage	V _{EE} = 0 V V _{CC} = 0 V	$V_{I} \leq V_{CC}$ $V_{I} \geq V_{EE}$	6 -6	V
l _{out}	Output Current	Continuous Surge		50 100	mA
I _{BB}	V _{BB} Sink/Source			± 0.5	mA
T _A	Operating Temperature Range			-40 to +85	°C
T _{stg}	Storage Temperature Range			-65 to +150	°C
$\theta_{\sf JA}$	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	SOIC-8 NB	190 130	°C/W
θЈС	Thermal Resistance (Junction-to-Case)	Standard Board	SOIC-8 NB	41 to 44	°C/W
$\theta_{\sf JA}$	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	TSSOP-8	185 140	°C/W
$\theta_{\sf JC}$	Thermal Resistance (Junction-to-Case)	Standard Board	TSSOP-8	41 to 44	°C/W
$\theta_{\sf JA}$	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	DFN-8	129 84	°C/W
T _{sol}	Wave Solder (Pb-Free)			265	°C
θЈС	Thermal Resistance (Junction-to-Case)	(Note 1)	DFN-8	35 to 40	°C/W

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

Table 4. 10EP DC CHARACTERISTICS, PECL (V_{CC} = 3.3 V, V_{EE} = 0 V (Note 1))

			-40°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current	16	23	31	16	23	31	16	23	31	mA
V _{OH}	Output HIGH Voltage (Note 2)	2165	2290	2415	2230	2355	2480	2290	2415	2540	mV
V _{OL}	Output LOW Voltage (Note 2)	1365	1490	1615	1430	1555	1680	1490	1615	1740	mV
V_{IH}	Input HIGH Voltage (Single-Ended)	2090		2415	2155		2480	2215		2540	mV
V_{IL}	Input LOW Voltage (Single-Ended)	1365		1690	1430		1755	1490		1815	mV
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	2.0		3.3	2.0		3.3	2.0		3.3	V
R _T	Internal Termination Resistor	43		57	43	50	57	43		57	Ω
I _{IH}	Input HIGH Current			150			150			150	μΑ
I _{IL}	Input LOW Current	-150			-150			-150			μΑ

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm. Electrical parameters are guaranteed only over the declared operating temperature range. Functional operation of the device exceeding these conditions is not implied. Device specification limit values are applied individually under normal operating conditions and not valid simultaneously.

- 1. Input and output parameters vary 1:1 with V_{CC} . V_{EE} can vary +0.3 V to -2.2 V.
- 2. All loading with 50 Ω to V_{CC} 2.0 V.
- 3. V_{IHCMR} min varies 1:1 with V_{EE}, V_{IHCMR} max varies 1:1 with V_{CC}. The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

^{1.} JEDEC standard multilayer board - 2S2P (2 signal, 2 power)

Table 5. 10EP DC CHARACTERISTICS, PECL (V_{CC} = 5.0 V, V_{EE} = 0 V (Note 1))

			-40°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current	16	23	31	16	23	31	16	23	31	mA
V _{OH}	Output HIGH Voltage (Note 2)	3865	3990	4115	3930	4055	4180	3990	4115	4240	mV
V_{OL}	Output LOW Voltage (Note 2)	3065	3190	3315	3130	3255	3380	3190	3315	3440	mV
V_{IH}	Input HIGH Voltage (Single-Ended)	3790		4115	3855		4180	3915		4240	mV
V_{IL}	Input LOW Voltage (Single-Ended)	3065		3390	3130		3455	3190		3515	mV
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	2.0		5.0	2.0		5.0	2.0		5.0	V
R _T	Internal Termination Resistor	43		57	43	50	57	43		57	Ω
I _{IH}	Input HIGH Current			150			150			150	μΑ
Ι _{ΙL}	Input LOW Current	-150			-150			-150			μΑ

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm. Electrical parameters are guaranteed only over the declared operating temperature range. Functional operation of the device exceeding these conditions is not implied. Device specification limit values are applied individually under normal operating conditions and not valid simultaneously.

- 1. Input and output parameters vary 1:1 with V_{CC} . V_{EE} can vary +2.0 V to -0.5 V.
- 2. All loading with 50 Ω to V_{CC} 2.0 V.
- 3. V_{IHCMR} min varies 1:1 with V_{EE}, V_{IHCMR} max varies 1:1 with V_{CC}. The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

Table 6. 10EP DC CHARACTERISTICS, NECL ($V_{CC} = 0 \text{ V}$; $V_{EE} = -5.5 \text{ V}$ to -3.0 V (Note 1))

			-40°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current	16	23	31	16	23	31	16	23	31	mA
VOH	Output HIGH Voltage (Note 2)	-1135	-1010	-885	-1070	-945	-820	-1010	-885	-760	mV
V_{OL}	Output LOW Voltage (Note 2)	-1935	-1810	-1685	-1870	-1745	-1620	-1810	-1685	-1560	mV
V _{IH}	Input HIGH Voltage (Single-Ended)	-1210		-885	-1145		-820	-1085		-760	mV
V _{IL}	Input LOW Voltage (Single-Ended)	-1935		-1610	-1870		-1545	-1810		-1485	mV
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	V _{EE}	+ 2.0	0.0	V _{EE}	+ 2.0	0.0	V _{EE}	+ 2.0	0.0	V
R _T	Internal Termination Resistor	43		57	43	50	57	43		57	Ω
I _{IH}	Input HIGH Current			150			150			150	μΑ
I _{IL}	Input LOW Current	-150			-150			-150			μΑ

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm. Electrical parameters are guaranteed only over the declared operating temperature range. Functional operation of the device exceeding these conditions is not implied. Device specification limit values are applied individually under normal operating conditions and not valid simultaneously.

- 1. Input and output parameters vary 1:1 with V_{CC}.
- All loading with 50 Ω to V_{CC} 2.0 V.
 V_{IHCMR} min varies 1:1 with V_{EE}, V_{IHCMR} max varies 1:1 with V_{CC}. The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

Table 7. 100EP DC CHARACTERISTICS, PECL (V_{CC} = 3.3 V, V_{EE} = 0 V (Note 1))

			-40°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current	18	25	35	20	27	37	22	29	39	mA
V _{OH}	Output HIGH Voltage (Note 2)	2155	2280	2405	2155	2280	2405	2155	2280	2405	mV
V _{OL}	Output LOW Voltage (Note 2)	1355	1480	1605	1355	1480	1605	1355	1480	1605	mV
V _{IH}	Input HIGH Voltage (Single-Ended)	2075		2420	2075		2420	2075		2420	mV
V_{IL}	Input LOW Voltage (Single-Ended)	1355		1675	1355		1675	1355		1675	mV
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	2.0		3.3	2.0		3.3	2.0		3.3	V
R _T	Internal Termination Resistor	43		57	43	50	57	43		57	Ω
I _{IH}	Input HIGH Current			150			150			150	μΑ
I _{IL}	Input LOW Current	-150			-150			-150			μΑ

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm. Electrical parameters are guaranteed only over the declared operating temperature range. Functional operation of the device exceeding these conditions is not implied. Device specification limit values are applied individually under normal operating conditions and not valid simultaneously.

- 1. Input and output parameters vary 1:1 with V_{CC} . V_{EE} can vary +0.3 V to -2.2 V.
- 2. All loading with 50 Ω to V_{CC} 2.0 V.
- 3. VIHCMR min varies 1:1 with VEE, VIHCMR max varies 1:1 with VCC. The VIHCMR range is referenced to the most positive side of the differential input signal.

Table 8. 100EP DC CHARACTERISTICS, PECL (V_{CC} = 5.0 V, V_{EE} = 0 V (Note 1))

			-40°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current	18	25	35	20	27	37	22	29	39	mA
V _{OH}	Output HIGH Voltage (Note 2)	3855	3980	4105	3855	3980	4105	3855	3980	4105	mV
V_{OL}	Output LOW Voltage (Note 2)	3055	3180	3305	3055	3180	3305	3055	3180	3305	mV
V _{IH}	Input HIGH Voltage (Single-Ended)	3775		4120	3775		4120	3775		4120	mV
V_{IL}	Input LOW Voltage (Single-Ended)	3055		3375	3055		3375	3055		3375	mV
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	2.0		5.0	2.0		5.0	2.0		5.0	V
R _T	Internal Termination Resistor	43		57	43	50	57	43		57	Ω
I _{IH}	Input HIGH Current			150			150			150	μΑ
I _{IL}	Input LOW Current	-150			-150			-150			μA

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm. Electrical parameters are guaranteed only over the declared operating temperature range. Functional operation of the device exceeding these conditions is not implied. Device specification limit values are applied individually under normal operating conditions and not valid simultaneously.

- 1. Input and output parameters vary 1:1 with $V_{CC}.\ V_{EE}$ can vary +2.0 V to –0.5 V.
- All loading with 50 Ω to V_{CC} 2.0 V.
 V_{IHCMR} min varies 1:1 with V_{EE}, V_{IHCMR} max varies 1:1 with V_{CC}. The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

Table 9. 100EP DC CHARACTERISTICS, NECL ($V_{CC} = 0 \text{ V}$; $V_{EE} = -5.5 \text{ V}$ to -3.0 V (Note 1))

			-40°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current	18	25	35	20	27	37	22	29	39	mA
V _{OH}	Output HIGH Voltage (Note 2)	-1145	-1020	-895	-1145	-1020	-895	-1145	-1020	-895	mV
V_{OL}	Output LOW Voltage (Note 2)	-1945	-1820	-1695	-1945	-1820	-1695	-1945	-1820	-1695	mV
V_{IH}	Input HIGH Voltage (Single-Ended)	-1225		-880	-1225		-880	-1225		-880	mV
V_{IL}	Input LOW Voltage (Single-Ended)	-1945		-1625	-1945		-1625	-1945		-1625	mV
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	V _{EE} ·	+ 2.0	0.0	V _{EE}	+ 2.0	0.0	V _{EE}	+ 2.0	0.0	V
R _T	Internal Termination Resistor	43		57	43	50	57	43		57	Ω
I _{IH}	Input HIGH Current			150			150			150	μΑ
I _{IL}	Input LOW Current	-150			-150			-150			μΑ

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm. Electrical parameters are guaranteed only over the declared operating temperature range. Functional operation of the device exceeding these conditions is not implied. Device specification limit values are applied individually under normal operating conditions and not valid simultaneously.

- 1. Input and output parameters vary 1:1 with V_{CC}.
- 2. All loading with 50 Ω to V_{CC} 2.0 V.
- 3. V_{IHCMR} min varies 1:1 with V_{EE}, V_{IHCMR} max varies 1:1 with V_{CC}. The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

Table 10. AC CHARACTERISTICS (V_{CC} = 0 V; V_{EE} = -3.0 V to -5.5 V or V_{CC} = 3.0 V to 5.5 V; V_{EE} = 0 V (Note 1))

	(00) LL				•			•	"		
			-40°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
f _{max}	Maximum Frequency (Figure 2)		> 3			> 3			> 3		GHz
t _{PLH} , t _{PHL}	Propagation Delay to Output Differential	150	230	300	150	240	300	200	275	350	ps
t _{SKEW}	Duty Cycle Skew (Note 2)		5.0	20		5.0	20		5.0	20	ps
t _{JITTER}	Cycle-to-Cycle Jitter (Figure 2)		0.2	< 1		0.2	< 1		0.2	< 1	ps
V_{PP}	Input Voltage Swing (Differential Configuration)	150	800	1200	150	800	1200	150	800	1200	mV
t _r t _f	Output Rise/Fall Times Q, Q (20% – 80%)	70	120	170	80	130	180	100	140	200	ps

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm. Electrical parameters are guaranteed only over the declared operating temperature range. Functional operation of the device exceeding these conditions is not implied. Device specification limit values are applied individually under normal operating conditions and not valid simultaneously.

- 1. Measured using a 750 mV source, 50% duty cycle clock source. All loading with 50 Ω to V $_{CC}$ 2.0 V.
- 2. Skew is measured between outputs under identical transitions. Duty cycle skew is defined only for differential operation when the delays are measured from the cross point of the inputs to the cross point of the outputs.

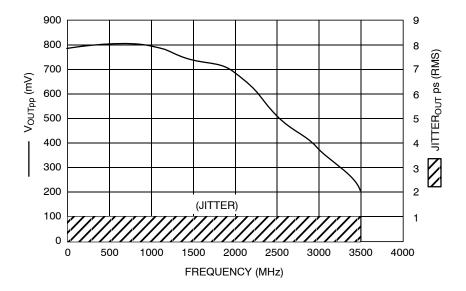


Figure 2. F_{max}/Jitter

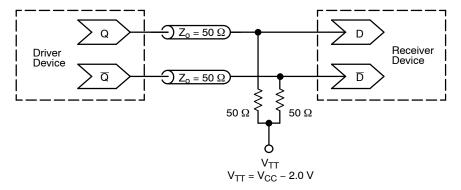


Figure 3. Typical Termination for Output Driver and Device Evaluation (See Application Note $\underline{\text{AND8020/D}}$ – Termination of ECL Logic Devices.)

ORDERING INFORMATION

Device	Package	Shipping [†]
MC10EP16TDG	SOIC-8 NB (Pb-Free)	98 Units / Rail
MC10EP16TDR2G	SOIC-8 NB (Pb-Free)	2500 / Tape & Reel
MC10EP16TDTG	TSSOP-8 (Pb-Free)	100 Units / Rail
MC10EP16TDTR2G	TSSOP-8 (Pb-Free)	2500 / Tape & Reel
MC10EP16TMNR4G	DFN-8 (Pb-Free)	1000 / Tape & Reel
MC100EP16TDG	SOIC-8 NB (Pb-Free)	98 Units / Rail
MC100EP16TDR2G	SOIC-8 NB (Pb-Free)	2500 / Tape & Reel
MC100EP16TDTG	TSSOP-8 (Pb-Free)	100 Units / Rail
MC100EP16TDTR2G	TSSOP-8 (Pb-Free)	2500 / Tape & Reel
MC100EP16TMNR4G	DFN-8 (Pb-Free)	1000 / Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

Resource Reference of Application Notes

AN1405/D - ECL Clock Distribution Techniques

AN1406/D - Designing with PECL (ECL at +5.0 V)

 $\textbf{AN1503/D} \qquad - \quad \text{ECLinPS} \ ^{\scriptscriptstyle{\text{\tiny{M}}}} \ \text{I/O SPiCE Modeling Kit}$

AN1504/D - Metastability and the ECLinPS Family

AN1568/D - Interfacing Between LVDS and ECL

AN1672/D - The ECL Translator Guide

AND8001/D - Odd Number Counters Design

AND8002/D - Marking and Date Codes

AND8020/D - Termination of ECL Logic Devices

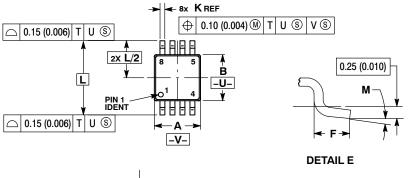
AND8066/D - Interfacing with ECLinPS

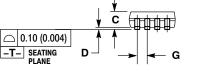
AND8090/D - AC Characteristics of ECL Devices

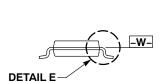


TSSOP 8 CASE 948R-02 ISSUE A

DATE 04/07/2000







- NOTES:

 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.

 2. CONTROLLING DIMENSION: MILLIMETER.

 3. DIMENSION A DOES NOT INCLUDE MOLD FLASH. PROTRUSIONS OR GATE BURRS. MOLD FLASH. OR GATE BURRS SHALL NOT EXCEED 0.15
- (0.006) PER SIDE.
 4. DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.
 5. TERMINAL NUMBERS ARE SHOWN FOR
- REFERENCE ONLY.
 6. DIMENSION A AND B ARE TO BE DETERMINED AT DATUM PLANE -W-.

	MILLIN	IETERS	INC	HES
DIM	MIN	MAX	MIN	MAX
Α	2.90	3.10	0.114	0.122
В	2.90	3.10	0.114	0.122
С	0.80	1.10	0.031	0.043
D	0.05	0.15	0.002	0.006
F	0.40	0.70	0.016	0.028
G	0.65	BSC	0.026	BSC
K	0.25	0.40	0.010	0.016
L	4.90	BSC	0.193	BSC
M	٥°	6 °	٥°	6°

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74LCXR162245MTX 74LVXC3245MTCX 74VHC245M 74VHC245MX JM38510/65553BRA FXL2TD245L10X 74LVC1T45GM,115

74LVC245ADTR2G TC74AC245P(F) SNJ54LS245FK 74LVT245BBT20-13 74AHC245D.112 74AHCT245D.112

SN74LVCH16952ADGGR CY74FCT16245TPVCT 74AHCT245PW.118 74LV245DB.118 74LV245D.112 74LV245PW.112

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