Translator, Dual TTL to Differential PECL

The MC10ELT/100ELT22 is a dual TTL to differential PECL translator. Because PECL (Positive ECL) levels are used only +5 V and ground are required. The small outline 8-lead package and the low skew, dual gate design of the ELT22 makes it ideal for applications which require the translation of a clock and a data signal.

Features

- 1.2 ns Typical Propagation Delay
- < 300 ps Typical Output to Output Skew
- PNP TTL Inputs for Minimal Loading
- Flow Through Pinouts
- Operating Range: $V_{CC} = 4.75 \text{ V}$ to 5.25 V with GND = 0 V
- No Internal Input Pulldown Resistors
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant



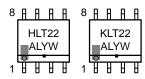
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MARKING DIAGRAMS*



SO-8 D SUFFIX CASE 751









H = MC10

K = MC100

A = Assembly Location

L = Wafer Lot

Y = Year

W = Work Week

■ = Pb-Free Package

(Note: Microdot may be in either location)
*For additional information, see Application Note
AND8002/D.

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 5 of this data sheet.

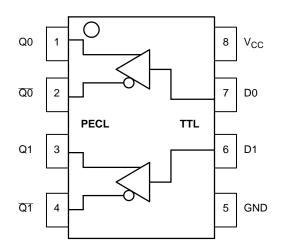


Table 1. PIN DESCRIPTION

Pin	Function
Qn, Qn	PECL Differential Outputs*
Dn	TTL Inputs
V _{CC}	Positive Supply
GND	Ground

^{*}Output state undetermined when inputs are open.

Figure 1. Logic Diagram and Pinout Assignment

Table 2. ATTRIBUTES

Charac	teristics	Value
Internal Input Pulldown Resisto	or	N/A
Internal Input Pullup Resistor		N/A
ESD Protection	Human Body Model Machine Model	> 2 kV > 200 V
Moisture Sensitivity, Indefinite	Time Out of Drypack (Note 1)	Level 1
Flammability Rating	Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in
Transistor Count		51
Meets or exceeds JEDEC Spe	c 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	Units
V _{CC}	Positive Power Supply	GND = 0 V		7	V
V _{IN}	Input Voltage	GND = 0 V		$GND + 0.025 \le V_1$ $\le V_{CC} - 0.025$	V
l _{out}	Output Current	Continuous Surge		50 100	mA mA
T _A	Operating Temperature Range			-40 to +85	°C
T _{stg}	Storage Temperature Range			-65 to +150	°C
θ_{JA}	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	8 SOIC 8 SOIC	190 130	°C/W
θ _{JC}	Thermal Resistance (Junction-to-Case)	Standard Board	8 SOIC	41 to 44	°C/W
$\theta_{\sf JA}$	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	8 TSSOP 8 TSSOP	185 140	°C/W
$\theta_{\sf JC}$	Thermal Resistance (Junction-to-Case)	Standard Board	8 TSSOP	41 to 44 ± 5%	°C/W
T _{sol}	Wave Solder	<2 to 3 sec @ 248°C		265	°C

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. 10ELT SERIES PECL DC CHARACTERISTICS $V_{CC} = 5.0 \text{ V}$; GND = 0.0 V (Note 2)

		-40°C		25°C		85°C					
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{CC}	Power Supply Current			22			22			22	mA
V _{OH}	Output HIGH Voltage (Note 3)	3920	4010	4110	4020	4105	4190	4090	4185	4280	mV
V _{OL}	Output LOW Voltage (Note 3)	3050	3200	3350	3050	3210	3370	3050	3227	3405	mV

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.

- 2. Output parameters vary 1:1 with V_{CC}. V_{CC} can vary \pm 0.25 V. 3. Outputs are terminated through a 50 Ω resistor to V_{CC} 2.0 V.

Table 5. 100ELT SERIES PECL DC CHARACTERISTICS $V_{CC} = 5.0 \text{ V}$; GND = 0.0 V (Note 4)

		−40°C		25°C		85°C					
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{CC}	Power Supply Current			22			22			22	mA
V _{OH}	Output HIGH Voltage (Note 5)	3915	3995	4120	3975	4045	4120	3975	4050	4120	mV
V _{OL}	Output LOW Voltage (Note 5)	3170	3305	3445	3190	3295	3380	3190	3295	3380	mV

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.

- 4. Output parameters vary 1:1 with V_{CC}. V_{CC} can vary \pm 0.25 V. 5. Outputs are terminated through a 50 Ω resistor to V_{CC} 2.0 V.

Table 6. TTL INPUT DC CHARACTERISTICS V_{CC} = 4.75 V to 5.25 V; T_A = -40°C to 85°C

Symbol	Characteristic	Condition	Min	Тур	Max	Unit
I _{IH}	Input HIGH Current	$V_{IN} = 2.7 \text{ V};$ $V_{IN} = (V_{CC} - 0.025) \text{ V}$			20	μΑ
I _{IHH}	Input HIGH Current	V _{IN} = 7.0 V			100	μΑ
I _{IL}	Input LOW Current	V _{IN} = 0.5 V; V _{IN} = (GND + 0.025) V			-0.6	mA
V _{IK}	Input Clamp Diode Voltage	I _{IN} = −18 mA			-1.2	V
V _{IH}	Input HIGH Voltage		2.0		V _{CC} – 0.025 V	V
V _{IL}	Input LOW Voltage		GND + 0.025 V		0.8	V

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.

Table 7. AC CHARACTERISTICS V_{CC} = 4.75 V to 5.25 V; GND= 0.0 V

			-40°C 25°C			85°C					
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
f _{MAX}	Maximum Input Frequency					500					MHz
t _{PLH}	Propagation Delay (Note 6) 1.5 V to 50%	0.6		1.2	0.9	1.2	1.5	0.6		1.35	ns
t _{PHL}	Propagation Delay (Note 6) 1.5 V to 50%	0.4		1.0	0.5	0.8	1.1	0.7		1.30	ns
t _{skew}	Within-Device Skew (Note 7) Device-to-Device Skew (Note 8)		50 300	100 600		50 300	100 600		50 350	100 750	ps
[†] JITTER	CLOCK Random Jitter (RMS)					0.5					ps
t _r /t _f	Output Rise/Fall Time (20–80%)	0.4		1.6	0.4		1.6	0.4		1.6	ns

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.

- 6. Specifications for standard TTL input signal.
- Skew is measured between outputs under identical transitions and conditions on any one device.
 Device-to-Device Skew for identical transitions at identical V_{CC} levels.

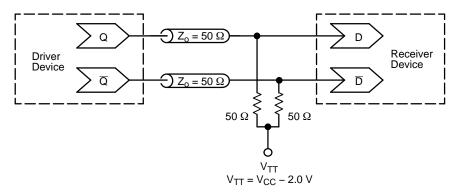


Figure 2. Typical Termination for Output Driver and Device Evaluation (See Application Note AND8020/D – Termination of ECL Logic Devices.)

ORDERING INFORMATION

Device	Package	Shipping [†]
MC10ELT22DG	SO-8 (Pb-Free)	98 Units / Rail
MC10ELT22DR2G	SO-8 (Pb-Free)	2500 Tape & Reel
MC10ELT22DTG	TSSOP-8 (Pb-Free)	100 Units / Rail
MC10ELT22DTR2G	TSSOP-8 (Pb-Free)	2500 Tape & Reel
MC100ELT22DG	SO-8 (Pb-Free)	98 Units / Rail
MC100ELT22DR2G	SO-8 (Pb-Free)	2500 Tape & Reel
MC100ELT22DTG	TSSOP-8 (Pb-Free)	100 Units / Rail
MC100ELT22DTR2G	TSSOP-8 (Pb-Free)	2500 Tape & Reel

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

Resource Reference of Application Notes

AN1405/D - ECL Clock Distribution Techniques AN1406/D Designing with PECL (ECL at +5.0 V) AN1503/D - ECLinPS™ 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

ECLinPS is a trademark of Semiconductor Components Industries, LLC (SCILLC).



SOIC-8 NB CASE 751-07 **ISSUE AK**

DATE 16 FEB 2011



- NOTES:
 1. DIMENSIONING AND TOLERANCING PER
- ANSI Y14.5M, 1982. CONTROLLING DIMENSION: MILLIMETER.
- DIMENSION A AND B DO NOT INCLUDE MOLD PROTRUSION.
- MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE
- DIMENSION D DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127 (0.005) TOTAL IN EXCESS OF THE D DIMENSION AT MAXIMUM MATERIAL CONDITION.
- 751-01 THRU 751-06 ARE OBSOLETE. NEW STANDARD IS 751-07.

	MILLIMETERS		INC	HES	
DIM	MIN	MAX	MIN	MAX	
Α	4.80	5.00	0.189	0.197	
В	3.80	4.00	0.150	0.157	
С	1.35	1.75	0.053	0.069	
D	0.33	0.51	0.013	0.020	
G	1.27	7 BSC	0.050 BSC		
Н	0.10	0.25	0.004	0.010	
J	0.19	0.25	0.007	0.010	
K	0.40	1.27	0.016	0.050	
М	0 °	8 °	0 °	8 °	
N	0.25	0.50	0.010	0.020	
S	5.80	6.20	0.228	0.244	

SOLDERING FOOTPRINT*



^{*}For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

GENERIC MARKING DIAGRAM*



XXXXX = Specific Device Code = Assembly Location

= Wafer Lot = Year = Work Week

= Pb-Free Package



XXXXXX = Specific Device Code = Assembly Location Α

= Year ww = Work Week

= Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

STYLES ON PAGE 2

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SOIC-8 NB CASE 751-07 ISSUE AK

DATE 16 FEB 2011

STYLE 2: PIN 1. COLLECTOR, DIE, #1 2. COLLECTOR, #1 3. COLLECTOR, #2 4. COLLECTOR, #2 6. EMITTER, #2 7. BASE, #1 8. EMITTER, #1 STYLE 6: PIN 1. SOURCE 2. DRAIN 3. DRAIN 4. SOURCE 5. SOURCE 6. GATE 7. GATE 8. SOURCE STYLE 10: PIN 1. GROUND 2. BIAS 1 3. OUTPUT 4. GROUND 5. GROUND 6. PINS 2	STYLE 3: PIN 1. DRAIN, DIE #1 2. DRAIN, #1 3. DRAIN, #2 4. DRAIN, #2 5. GATE, #2 6. SOURCE, #2 7. GATE, #1 8. SOURCE, #1 STYLE 7: PIN 1. IMPUT 2. EXTERNAL BYPASS 3. THIRD STAGE SOURCE 4. GROUND 5. DRAIN 6. GATE 3 7. SECOND STAGE Vd 8. FIRST STAGE Vd STYLE 11: PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2 4. GATE 2	3. BASE, #2 4. COLLECTOR, #2 5. COLLECTOR, #2 6. EMITTER, #2 7. EMITTER, #1 8. COLLECTOR, #1 STYLE 12: PIN 1. SOURCE 2. SOURCE
PIN 1. SOURCE 2. DRAIN 3. DRAIN 4. SOURCE 5. SOURCE 6. GATE 7. GATE 8. SOURCE STYLE 10: PIN 1. GROUND 2. BIAS 1 3. OUTPUT 4. GROUND	PIN 1. INPUT 2. EXTERNAL BYPASS 3. THIRD STAGE SOURCE 4. GROUND 5. DRAIN 6. GATE 3 7. SECOND STAGE Vd 8. FIRST STAGE Vd STYLE 11: PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2	PIN 1. COLLECTOR, DIE #1 2. BASE, #1 3. BASE, #2 4. COLLECTOR, #2 5. COLLECTOR, #2 6. EMITTER, #2 7. EMITTER, #1 8. COLLECTOR, #1 STYLE 12: PIN 1. SOURCE 2. SOURCE
PIN 1. GROUND 2. BIAS 1 3. OUTPUT 4. GROUND	PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2	PIN 1. SOURCE 2. SOURCE
6. BIAS 2 7. INPUT 8. GROUND	5. DRAIN 2 6. DRAIN 2 7. DRAIN 1 8. DRAIN 1	3. SOURCE 4. GATE 5. DRAIN 6. DRAIN 7. DRAIN 8. DRAIN
STYLE 14: PIN 1. N-SOURCE 2. N-GATE 3. P-SOURCE 4. P-GATE 5. P-DRAIN 6. P-DRAIN 7. N-DRAIN 8. N-DRAIN	STYLE 15: PIN 1. ANODE 1 2. ANODE 1 3. ANODE 1 4. ANODE 1 5. CATHODE, COMMON 6. CATHODE, COMMON 7. CATHODE, COMMON 8. CATHODE, COMMON	STYLE 16: PIN 1. EMITTER, DIE #1 2. BASE, DIE #1 3. EMITTER, DIE #2 4. BASE, DIE #2 5. COLLECTOR, DIE #2 6. COLLECTOR, DIE #2 7. COLLECTOR, DIE #1 8. COLLECTOR, DIE #1
STYLE 18: PIN 1. ANODE 2. ANODE 3. SOURCE 4. GATE 5. DRAIN 6. DRAIN 7. CATHODE 8. CATHODE	STYLE 19: PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2 4. GATE 2 5. DRAIN 2 6. MIRROR 2 7. DRAIN 1 8. MIRROR 1	STYLE 20: PIN 1. SOURCE (N) 2. GATE (N) 3. SOURCE (P) 4. GATE (P) 5. DRAIN 6. DRAIN 7. DRAIN 8. DRAIN
STYLE 22: PIN 1. I/O LINE 1 2. COMMON CATHODE/VCC 3. COMMON CATHODE/VCC 4. I/O LINE 3 5. COMMON ANODE/GND 6. I/O LINE 4 7. I/O LINE 5 8. COMMON ANODE/GND	STYLE 23: PIN 1. LINE 1 IN 2. COMMON ANODE/GND 3. COMMON ANODE/GND 4. LINE 2 IN 5. LINE 2 OUT 6. COMMON ANODE/GND 7. COMMON ANODE/GND 8. LINE 1 OUT	STYLE 24: PIN 1. BASE 2. EMITTER 3. COLLECTOR/ANODE 4. COLLECTOR/ANODE 5. CATHODE 6. CATHODE 7. COLLECTOR/ANODE 8. COLLECTOR/ANODE
STYLE 26: PIN 1. GND 2. dv/dt 3. ENABLE 4. ILIMIT 5. SOURCE 6. SOURCE 7. SOURCE 8. VCC	STYLE 27: PIN 1. ILIMIT 2. OVLO 3. UVLO 4. INPUT+ 5. SOURCE 6. SOURCE 7. SOURCE 8. DRAIN	STYLE 28: PIN 1. SW_TO_GND 2. DASIC_OFF 3. DASIC_SW_DET 4. GND 5. V_MON 6. VBULK 7. VBULK 8. VIN
STYLE 30: PIN 1. DRAIN 1 2. DRAIN 1 3. GATE 2 4. SOURCE 2 5. SOURCE 1/DRAIN 2 6. SOURCE 1/DRAIN 2 7. SOURCE 1/DRAIN 2 8. GATE 1		
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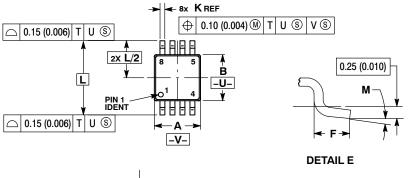
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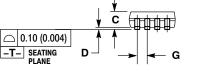
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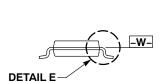


TSSOP 8 CASE 948R-02 ISSUE A

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	INCHES	
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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NLSX5011MUTCG NLV9306USG NLVSX4014MUTAG NLSV4T3144MUTAG NLVSX4373MUTAG NB3U23CMNTAG
MAX3371ELT+T NLSX3013BFCT1G NLV7WBD3125USG NLSX3012DMR2G 74AVCH1T45FZ4-7 NLVSV1T244MUTBG
74AVC1T45GS-Q100H CLVC16T245MDGGREP MC10H124FNG CAVCB164245MDGGREP CD40109BPWR MC10H350FNG
MC10H125FNG MC100EPT21MNR4G MC100EP91DWG NLSX3018MUTAG NLSV2T244MUTAG NLSX3013FCT1G
NLSX5011AMX1TCG PCA9306USG SN74GTL1655DGGR SN74AVCA406LZQSR NLSX4014DTR2G NLSX3018DTR2G
LTC1045CSW#PBF LTC1045CN#PBF SY100EL92ZG 74AXP1T34GMH 74AXP1T34GNH LSF0204DPWR PI4ULS3V204LE
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