<u>Onsemí</u>

5.0 V ECL Differential Receiver

MC10EL16, MC100EL16

Description

The MC10EL/100EL16 is a differential receiver. The device is functionally equivalent to the E116 device with higher performance capabilities. With output transition times significantly faster than the E116, the EL16 is ideally suited for interfacing with high frequency sources.

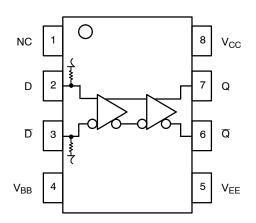
The V_{BB} pin, an internally generated voltage supply, is available to this device only. For single-ended input conditions, the unused differential input is connected to V_{BB} as a switching reference voltage. V_{BB} may also rebias AC coupled inputs. When used, decouple V_{BB} and V_{CC} via a 0.01 μF capacitor and limit current sourcing or sinking to 0.5 mA. When not used, V_{BB} should be left open.

Under open input conditions (pulled to V_{EE}) internal input clamps will force the Q output LOW.

The 100 Series contains temperature compensation.

Features

- 190 ps Propagation Delay
- PECL Mode Operating Range: V_{CC} = 4.2 V to 5.7 V with V_{EE} = 0 V
- NECL Mode Operating Range: $V_{CC} = 0$ V with $V_{EE} = -4.2$ V to -5.7 V
- Internal Input Pulldown Resistors
- These Devices are Pb-Free, Halogen Free and are RoHS Compliant



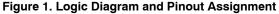
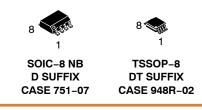


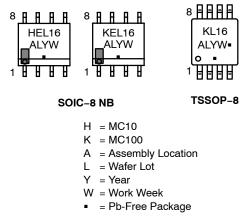
Table 1. PIN DESCRIPTION

PIN	FUNCTION
D, D	ECL Data Inputs
Q, <u>Q</u>	ECL Data Outputs
V _{BB}	Reference Voltage Output
V _{CC}	Positive Supply
V_{EE}	Negative Supply
NC	No Connect





MARKING DIAGRAM



(Note: Microdot may be in either location)

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

ORDERING INFORMATION

Device	Package	Shipping [†]
MC10EL16DG	SOIC-8 NB (Pb-Free)	98 Units / Tube
MC10EL16DR2G	SOIC-8 NB (Pb-Free)	2500 / Tape & Reel
MC100EL16DG	SOIC-8 NB (Pb-Free)	98 Units / Tube
MC100EL16DR2G	SOIC-8 NB (Pb-Free)	2500 / Tape & Reel

DISCONTINUED (Note 1)

MC100EL16DTR2G	TSSOP-8	2500 /
	(Pb-Free)	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, <u>BRD8011/D.</u>

 DISCONTINUED: This device is not recommended for new design. Please contact your onsemi representative for information. The most current information on this device may be available on <u>www.onsemi.com</u>.

Table 2. ATTRIBUTES

Characteristics	Value
Internal Input Pulldown Resistor	75 ΚΩ
Internal Input Pullup Resistor	N/A
ESD Protection Human Body Model Machine Model Charge Device Model	> 500 V > 100 V > 2 KV
Moisture Sensitivity, Indefinite Time Out of Drypack (Note 2) SOIC-8 NB TSSOP-8	Pb-Free Pkg Level 1 Level 3
Flammability Rating Oxygen Index: 28 to 34	UL 94 V–0 @ 0.125 in
Transistor Count	47
Meets or Exceeds JEDEC Spec EIA/JESD78 IC Latchup Test	•

2. For additional information, see Application Note AND8003/D.

Table 3. MAXIMUM RATINGS

Symbol	Parameter	Condition 1	Condition 2	Rating	Units
V _{CC}	PECL Mode Power Supply	V _{EE} = 0 V		8	V
V_{EE}	NECL Mode Power Supply	V _{CC} = 0 V		-8	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
θ_{JA}	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500 lfpm	SOIC-8 NB SOIC-8 NB	190 130	°C/W
θ_{JC}	Thermal Resistance (Junction-to-Case)	Standard Board	SOIC-8 NB	41 to 44	°C/W
θ_{JA}	Thermal Resistance (Junction-to-Ambient)	0 lfpm 500lfpm	TSSOP-8 TSSOP-8	185 140	°C/W
θ_{JC}	Thermal Resistance (Junction-to-Case)	Standard Board	TSSOP-8	41 to 44 ±5%	°C/W
T _{sol}	Wave Solder (Pb-Free)	< 2 to 3 sec @ 260°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.

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		–40°C			25°C			85°C			
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current		18	22		18	22		18	22	mA
V _{OH}	Output HIGH Voltage (Note 2)	3920	4010	4110	4020	4105	4190	4090	4185	4280	mV
V _{OL}	Output LOW Voltage (Note 2)	3050	3200	3350	3050	3210	3370	3050	3227	3405	mV
V _{IH}	Input HIGH Voltage (Single-Ended)	3770		4110	3870		4190	3940		4280	mV
V _{IL}	Input LOW Voltage (Single-Ended)	3050		3500	3050		3520	3050		3555	mV
V _{BB}	Output Voltage Reference	3.57		3.7	3.65		3.75	3.69		3.81	V
V _{IHCMR}	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	2.5		4.6	2.5		4.6	2.5		4.6	V
IIH	Input HIGH Current			150			150			150	μA
۱ _{IL}	Input LOW Current	0.5			0.5			0.3			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.

1. Input and output parameters vary 1:1 with V_{CC}. V_{EE} can vary +0.25 V / –0.5 V. 2. Outputs are terminated through a 50 Ω resistor 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. Normal operation is obtained if the HIGH level falls within the specified range and the peak-to-peak voltage lies between V_{PP}min and 1 V.

		–40°C		25°C			85°C				
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current		18	22		18	22		18	22	mA
V _{OH}	Output HIGH Voltage (Note 2)	-1080	-990	-890	-980	-895	-810	-910	-815	-720	mV
V _{OL}	Output LOW Voltage (Note 2)	-1950	-1800	-1650	-1950	-1790	-1630	-1950	-1773	-1595	mV
VIH	Input HIGH Voltage (Single-Ended)	-1230		-890	-1130		-810	-1060		-720	mV
VIL	Input LOW Voltage (Single-Ended)	-1950		-1500	-1950		-1480	-1950		-1445	mV
V _{BB}	Output Voltage Reference	-1.43		-1.30	-1.35		-1.25	-1.31		-1.19	V
VIHCMR	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	-2.5		-0.4	-2.5		-0.4	-2.5		-0.4	V
Ι _{ΙΗ}	Input HIGH Current			150			150			150	μA
IIL	Input LOW Current	0.5			0.5			0.3			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.

Input and output parameters vary 1:1 with V_{CC}. V_{EE} can vary +0.25 V / -0.5 V.
Outputs are terminated through a 50 Ω resistor 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. Normal operation is obtained if the HIGH level falls within the specified range and the peak-to-peak voltage lies between V_{PP}min and 1 V.

MC10EL16, MC100EL16

			–40°C			25°C			85°C		
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
I _{EE}	Power Supply Current		18	22		18	22		21	26	mA
V _{OH}	Output HIGH Voltage (Note 2)	3915	3995	4120	3975	4045	4120	3975	4050	4120	mV
V _{OL}	Output LOW Voltage (Note 2)	3170	3305	3445	3190	3295	3380	3190	3295	3380	mV
VIH	Input HIGH Voltage (Single-Ended)	3835		4120	3835		4120	3835		4120	mV
VIL	Input LOW Voltage (Single-Ended)	3190		3525	3190		3525	3190		3525	mV
V_{BB}	Output Voltage Reference	3.62		3.74	3.62		3.74	3.62		3.74	V
VIHCMR	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	2.5		4.6	2.5		4.6	2.5		4.6	V
I _{IH}	Input HIGH Current			150			150			150	μΑ
IIL	Input LOW Current	0.5			0.5			0.5			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.

1. Input and output parameters vary 1:1 with V_{CC}. V_{EE} can vary +0.8 V / –0.5 V.

2. Outputs are terminated through a 50 Ω resistor 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. Normal operation is obtained if the HIGH level falls within the specified range and the peak-to-peak voltage lies between VPPmin and 1 V.

Table 7. 100EL SERIES NECL DC CHARACTERISTICS (V_{CC} = 0 V; V_{EE} = -5.0 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	22		18	22		21	26	mA
V _{OH}	Output HIGH Voltage (Note 2)	-1085	-1005	-880	-1025	-955	-880	-1025	-955	-880	mV
V _{OL}	Output LOW Voltage (Note 2)	-1830	-1695	-1555	-1810	-1705	-1620	-1810	-1705	-1620	mV
VIH	Input HIGH Voltage (Single-Ended)	-1165		-880	-1165		-880	-1165		-880	mV
VIL	Input LOW Voltage (Single-Ended)	-1810		-1475	-1810		-1475	-1810		-1475	mV
V_{BB}	Output Voltage Reference	-1.38		-1.26	-1.38		-1.26	-1.38		-1.26	V
VIHCMR	Input HIGH Voltage Common Mode Range (Differential Configuration) (Note 3)	-2.5		-0.4	-2.5		-0.4	-2.5		-0.4	V
I _{IH}	Input HIGH Current			150			150			150	μA
IIL	Input LOW Current	0.5			0.5			0.5			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.

1. Input and output parameters vary 1:1 with V_{CC}. V_{EE} can vary +0.8 V / –0.5 V.

2. Outputs are terminated through a 50 Ω resistor 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. Normal operation is obtained if the HIGH level falls within the specified range and the peak-to-peak voltage lies between VPPmin and 1 V.

MC10EL16, MC100EL16

		−40°C		25°C			85°C				
Symbol	Characteristic	Min	Тур	Max	Min	Тур	Max	Min	Тур	Max	Unit
fmax	Maximum Toggle Frequency					1.75					GHz
t _{PLH} t _{PHL}	Propagation Delay to Output (Diff) (SE)	125 75	250 250	375 425	175 125	250 250	325 375	205 155	280 280	355 405	ps
t _{SKEW}	Duty Cycle Skew (Diff) (Note 2)		5	20		5	20		5	20	ps
t JITTER	Random Clock Jitter (RMS)					0.7					ps
V _{PP}	Input Swing (Note 3)	150		1000	150		1000	150		1000	mV
t _r t _f	Output Rise/Fall Times Q (20%-80%)	100	190	350	100	190	350	100	190	350	ps

Table 8. AC CHARACTERISTICS ($V_{CC} = 5.0 \text{ V}$; $V_{EE} = 0 \text{ V}$ or $V_{CC} = 0 \text{ V}$; $V_{EE} = -5.0 \text{ V}$ (Note 1))

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.

1. 10 Series: V_{EE} can vary +0.25 V / -0.5 V.

100 Series: VEE can vary +0.8 V / -0.5 V.

2. Duty cycle skew is the difference between a t_{PLH} and t_{PHL} propagation delay through a device.

3. V_{PP}(min) is minimum input swing for which AC parameters guaranteed. The device has a DC gain of ≈ 40.

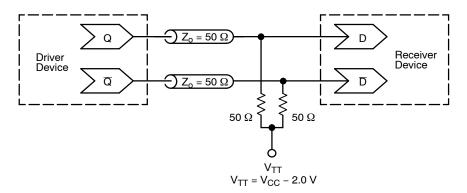


Figure 2. Typical Termination for Output Driver and Device Evaluation (See Application Note <u>AND8020/D</u> – Termination of ECL Logic Devices)

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

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

STYLES ON PAGE 2

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STYLE 1: PIN 1. EMITTER COLLECTOR 2. COLLECTOR 3. 4. EMITTER 5. EMITTER BASE 6. 7 BASE EMITTER 8. STYLE 5: PIN 1. DRAIN 2. DRAIN З. DRAIN DRAIN 4. GATE 5. 6. GATE SOURCE 7. 8. SOURCE STYLE 9: PIN 1. EMITTER, COMMON COLLECTOR, DIE #1 COLLECTOR, DIE #2 2. З. EMITTER, COMMON 4. 5. EMITTER, COMMON 6 BASE. DIE #2 BASE, DIE #1 7. 8. EMITTER, COMMON STYLE 13: PIN 1. N.C. 2. SOURCE 3 GATE 4. 5. DRAIN 6. DRAIN DRAIN 7. 8. DRAIN STYLE 17: PIN 1. VCC 2. V2OUT V10UT З. TXE 4. 5. RXE 6. VFF 7. GND 8. ACC STYLE 21: PIN 1. CATHODE 1 2. CATHODE 2 3 CATHODE 3 CATHODE 4 4. 5. CATHODE 5 6. COMMON ANODE COMMON ANODE 7. 8. CATHODE 6 STYLE 25: PIN 1. VIN 2 N/C REXT З. 4. GND 5. IOUT 6. IOUT IOUT 7. 8. IOUT STYLE 29: BASE, DIE #1 PIN 1. 2 EMITTER, #1 BASE, #2 З. EMITTER, #2 4. 5 COLLECTOR, #2 COLLECTOR, #2 6.

STYLE 2: PIN 1. COLLECTOR, DIE, #1 2. COLLECTOR, #1 COLLECTOR, #2 3. 4 COLLECTOR, #2 BASE, #2 5. EMITTER, #2 6. 7 BASE #1 EMITTER, #1 8. STYLE 6: PIN 1. SOURCE 2. DRAIN 3. DRAIN SOURCE 4. SOURCE 5. 6. GATE GATE 7. 8. SOURCE STYLE 10: GROUND PIN 1. BIAS 1 OUTPUT 2. З. GROUND 4. 5. GROUND 6 BIAS 2 INPUT 7. 8. GROUND STYLE 14: PIN 1. N-SOURCE 2. N-GATE 3 P-SOURCE P-GATE 4. P-DRAIN 5 6. P-DRAIN N-DRAIN 7. N-DRAIN 8. STYLE 18: PIN 1. ANODE ANODE 2. SOURCE 3. GATE 4. 5. DRAIN 6 DRAIN CATHODE 7. 8. CATHODE STYLE 22: PIN 1. I/O LINE 1 2. COMMON CATHODE/VCC 3 COMMON CATHODE/VCC 4. I/O LINE 3 COMMON ANODE/GND 5. 6. I/O LINE 4 7. I/O LINE 5 8. COMMON ANODE/GND STYLE 26: PIN 1. GND 2 dv/dt З. ENABLE 4. ILIMIT 5. SOURCE SOURCE 6. SOURCE 7. 8. VCC STYLE 30: DRAIN 1 PIN 1. DRAIN 1 2 GATE 2 З. SOURCE 2 4. SOURCE 1/DRAIN 2 SOURCE 1/DRAIN 2 5. 6.

STYLE 3: PIN 1. DRAIN, DIE #1 DRAIN, #1 2. DRAIN, #2 З. DRAIN, #2 4. GATE, #2 5. SOURCE, #2 6. 7 GATE #1 8. SOURCE, #1 STYLE 7: PIN 1. INPUT 2. EXTERNAL BYPASS THIRD STAGE SOURCE GROUND З. 4. 5. DRAIN 6. GATE 3 SECOND STAGE Vd 7. FIRST STAGE Vd 8. STYLE 11: PIN 1. SOURCE 1 GATE 1 SOURCE 2 2. 3. GATE 2 4. 5. DRAIN 2 6. DRAIN 2 DRAIN 1 7. 8. DRAIN 1 STYLE 15: PIN 1. ANODE 1 2. ANODE 1 ANODE 1 3 ANODE 1 4. 5. CATHODE, COMMON CATHODE, COMMON CATHODE, COMMON 6. 7. CATHODE, COMMON 8. STYLE 19: PIN 1. SOURCE 1 GATE 1 SOURCE 2 2. 3. GATE 2 4. 5. DRAIN 2 6. MIRROR 2 7. DRAIN 1 8. **MIRROR 1** STYLE 23: PIN 1. LINE 1 IN COMMON ANODE/GND COMMON ANODE/GND 2. 3 LINE 2 IN 4. LINE 2 OUT 5. COMMON ANODE/GND COMMON ANODE/GND 6. 7. 8. LINE 1 OUT STYLE 27: PIN 1. ILIMIT 2 OVI 0 UVLO З. 4. INPUT+ 5. 6. SOURCE SOURCE SOURCE 7. 8 DRAIN

STYLE 4: PIN 1. 2. ANODE ANODE ANODE З. 4. ANODE ANODE 5. 6. ANODE 7 ANODE COMMON CATHODE 8. STYLE 8: PIN 1. COLLECTOR, DIE #1 2. BASE, #1 BASE #2 З. COLLECTOR, #2 4. COLLECTOR, #2 5. 6. EMITTER, #2 EMITTER, #1 7. 8. COLLECTOR, #1 STYLE 12: PIN 1. SOURCE SOURCE 2. 3. GATE 4. 5. DRAIN 6. DRAIN DRAIN 7. 8. DRAIN STYLE 16 EMITTER, DIE #1 PIN 1. 2. BASE, DIE #1 EMITTER, DIE #2 3 BASE, DIE #2 4. 5. COLLECTOR, DIE #2 6. COLLECTOR, DIE #2 COLLECTOR, DIE #1 7. COLLECTOR, DIE #1 8. STYLE 20: PIN 1. SOURCE (N) GATE (N) SOURCE (P) 2. 3. 4. GATE (P) 5. DRAIN 6. DRAIN DRAIN 7. 8. DRAIN STYLE 24: PIN 1. BASE EMITTER 2. 3 COLLECTOR/ANODE COLLECTOR/ANODE 4. 5. CATHODE

6. CATHODE COLLECTOR/ANODE 7. 8. COLLECTOR/ANODE STYLE 28: PIN 1. SW_TO_GND 2. DASIC OFF DASIC_SW_DET З. 4. GND 5. 6. V MON VBULK 7. VBULK

7. VOULK 8. VIN

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SOURCE 1/DRAIN 2

7.

8. GATE 1

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7.

8

COLLECTOR, #1

COLLECTOR, #1

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