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September 2010

### FIN1108 — LVDS 8-Port, High-Speed Repeater

#### **Features**

- Greater than 800Mbps Data Rate
- 3.3V Power Supply Operation
- 3.5ps Maximum Random Jitter and 135ps Maximum Deterministic Jitter
- Wide Rail-to-Rail Common Mode Range
- LVDS Receiver Inputs Accept LVPECL, HSTL, and SSTL-2 Directly
- Ultra-low Power Consumption
- 20ps Typical Channel-to-Channel Skew
- Power-Off Protection
- 7.5kV HBM ESD Protection
- Meets or Exceeds the TIA/EIA-644-A LVDS Standard
- 48-Lead TSSOP Package
- Open-Circuit Fail-Safe Protection
- V<sub>BB</sub> Reference Output

#### **Descriptions**

This eight-port repeater is designed for high-speed interconnects utilizing Low Voltage Differential Signaling (LVDS) technology.

The FIN1108 accepts and outputs LVDS levels with a typical differential output swing of 330mV, which provides low EMI at ultra-low power dissipation even at high frequencies. The FIN1108 provides a  $V_{\rm BB}$  reference for AC coupling on the inputs. In addition, the FIN1108 can directly accept LVPECL, HSTL, and SSTL-2 for translation to LVDS.

#### **Ordering Information**

Part Number	Operating Temperature Range	Package	Packing Method
1 FIN 1 1 (18 M 1 ) 1 - 1 (1 ) 1		48-Lead, Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 6.1mm Wide	Tube
FIN1108MTDX	1108MTDX -40 to +85°C 48-Lead, Shrink Small Outline Package (TSSOP), JEDEC MO-153, 6.1mm Wide		Tape and Reel

### **Pin Configuration**

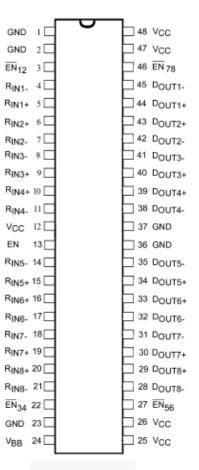


Figure 1. Pin Configuration

#### **Pin Definitions**

Pin #	Name	Description		
1,2,23,37,36	GND	Ground.		
3	/EN <sub>12</sub>	Inverting driver enable for D <sub>OUT1</sub> and D <sub>OUT2</sub> .		
4,7,8,11,14,17,18,21	R <sub>IN1-</sub> ,R <sub>IN2-</sub> ,R <sub>IN3-</sub> ,R <sub>IN5-</sub> R <sub>IN6-</sub> ,R <sub>IN7-</sub> ,R <sub>IN8-</sub>	Inverting LVDS input.		
5,6,9,10,15,16,19,20	R <sub>IN1+</sub> ,R <sub>IN2+</sub> ,R <sub>IN3+</sub> ,R <sub>IN5+</sub> R <sub>IN6+</sub> ,R <sub>IN7+</sub> ,R <sub>IN8+</sub>	Non-inverting LVDS input.		
12,25,26,47,48	VCC	Power supply pin.		
13 EN		Driver enable for all outputs.		
22	/EN <sub>34</sub>	Inverting driver enable for D <sub>OUT3</sub> and D <sub>OUT4</sub> .		
24	$V_{BB}$	Reference voltage output.		
27	/EN <sub>56</sub>	Inverting driver enable for D <sub>OUT5</sub> and D <sub>OUT6</sub> .		
28,31,32,35,38,41,42,45 D <sub>OUT8-</sub> ,D <sub>OUT5-</sub> ,D <sub>OUT5-</sub> D <sub>OUT4-</sub> ,D <sub>OUT3-</sub> ,D <sub>OUT2-</sub> ,D <sub>OUT1-</sub>		Inverting drive output.		
29,30,33,34,39,40,43,44	43,44 DOUT8+, DOUT6+, DOUT6+, DOUT5+DOUT4+, DOUT3+, DOUT2+, DOUT1+  Non-inverting drive output.			
46	/EN <sub>78</sub>	Inverting driver enable for D <sub>OUT7</sub> and D <sub>OUT8</sub> .		

### **Functional Diagram**

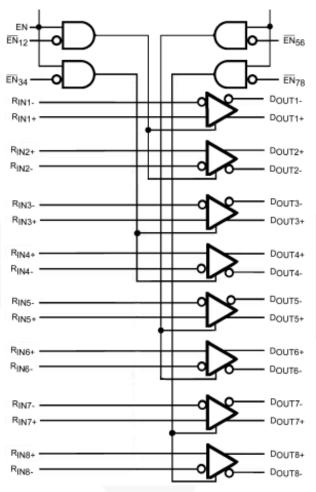


Figure 2. Functional Diagram

**Table 1. Function Table** 

	Inputs				Outputs		
EN	/EN <sub>XX</sub>	D <sub>IN+</sub>	D <sub>IN-</sub>	D <sub>OUT+</sub> D <sub>OUT-</sub>			
HIGH	LOW	HIGH	LOW	HIGH	LOW		
HIGH	LOW	LOW	HIGH	LOW	HIGH		
HIGH	LOW	Fail-Safe		HIGH	LOW		
Don't Care	HIGH	Don't Care	on't Care Don't Care High Impedance		High Impedance		
LOW	Don't Care	Don't Care	Don't Care	High Impedance	High Impedance		

#### **Absolute Maximum Ratings**

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Min.	Max.	Unit
V <sub>CC</sub>	Supply Voltage	-0.5	+4.6	V
V <sub>IN</sub>	LVDS DC Input Voltage	-0.5	+4.6	V
V <sub>OUT</sub>	LVDS DC Output Voltage	-0.5	+4.6	V
I <sub>OSD</sub>	Driver Short-Circuit Current	Continuous	10	mA
T <sub>STG</sub>	Storage Temperature Range	-65	+150	°C
TJ	Junction Temperature		+150	°C
TL	Lead Temperature, Soldering, 10 seconds		+260	°C
ESD Human Body Model, JESD22-A114			7500	V
ESD	Machine Model, JEDEC: JESD22-A115		400	V

### **Recommended Operating Conditions**

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to Absolute Maximum Ratings.

Symbol	Parameter	Min.	Max.	Unit
V <sub>CC</sub>	Supply Voltage	3.0	3.6	V
V <sub>ID</sub>	Magnitude of Differential Voltage	100	mV to V <sub>CC</sub>	V
V <sub>IC</sub>	Common Mode Voltage Range	(0V +  V <sub>ID</sub>  /2)	(V <sub>CC</sub> -   V <sub>ID</sub>   /2)	V
T <sub>A</sub>	Operating Temperature	-40	+85	°C

### **DC Electrical Characteristics**

Typical values are at  $T_A=25\,^{\circ}\text{C}$  with  $V_{\text{CC}}=3.3\text{V}$ .

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Units
$V_{TH}$	Differential Input Threshold HIGH	$V_{\text{IC}}$ =+0.05V, + 1.2V, or $V_{\text{CC}}$ - 0.05V Figure 3			100	mV
$V_{TL}$	Differential Input Threshold LOW	$V_{IC}$ =+0.05V, + 1.2V, or $V_{CC}$ - 0.05V Figure 3	-100			mV
V <sub>IH</sub>	Input HIGH Voltage (EN or /EN)		2.0		V <sub>CC</sub>	V
VIL	Input LOW Voltage (EN or /EN)		GND		0.8	V
V <sub>OD</sub>	Output Differential Voltage		250	330	450	mV
$\Delta V_{OD}$	V <sub>OD</sub> Magnitude Change from Differential LOW-to-HIGH	$R_L=100\Omega$ , Driver Enabled,			25	mV
Vos	Offset Voltage	Figure 4	1.125	1.230	1.375	V
$\Delta V_{OS}$	Offset Magnitude Change from Differential LOW-to-HIGH				25	mV
Ios	Short-Circuit Output	D <sub>OUT+</sub> =0V and D <sub>OUT-</sub> =0V, Driver Enabled		-3.4	-6.0	mA
	Current	V <sub>OD</sub> =0V, Driver Enabled		±3.4	±6.0	mA
I <sub>IN</sub>	Input Current (EN, /EN, D <sub>INx+</sub> , D <sub>INx-</sub> )	V <sub>IN</sub> =0V to V <sub>CC</sub> , Other Input=V <sub>CC</sub> or 0V for Differential Input			±20	μΑ
l <sub>OFF</sub>	Power-off Input or Output Current	V <sub>CC</sub> =0V, V <sub>IN</sub> or V <sub>OUT</sub> =0V to 3.6V			±20	μΑ
I <sub>CCZ</sub>	Disabled Power Supply Current	Drivers Disabled			20	mA
Icc	Power Supply Current	Drivers Enabled, Any Valid Input Condition			80	mA
l <sub>OZ</sub>	Disabled Output Leakage Current	Driver Disabled, D <sub>OUT+</sub> =0V, to 3.6V or D <sub>OUT-</sub> =0V to 3.6V			±20	μA
V <sub>IC</sub>	Common Mode Voltage Range		V <sub>ID</sub> /2		V <sub>CC</sub> - (V <sub>ID</sub> /2)	V
C <sub>IN</sub>	Input Capacitance	Enable Input		3		pF
	mput Oupdoltarioe	LVDS Input		3		Ρı
$C_OUT$	Output Capacitance			3		pF
$V_{BB}$	Output Reference Voltage	$V_{CC}$ =3.3V, $I_{BB}$ =0 to -275 $\mu$ A	1.125	1.200	1.375	V

#### **AC Electrical Characteristics**

Typical values are at  $T_A=25$ °C with  $V_{CC}=3.3V$ .

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Units
t <sub>PLHD</sub>	Differential Output Propagation Delay LOW-to-HIGH		0.75	1.10	1.75	ns
t <sub>PHLD</sub>	Differential Output Propagation Delay HIGH-to-LOW		0.75	1.10	1.75	ns
t <sub>TLHD</sub>	Differential Output Rise Time (20% to 80%)	$R_L=100\Omega$ , $C_L=5pF$ $V_{ID}=200mV$ to $450mV$ ,	0.29	0.40	0.58	ns
t <sub>THLD</sub>	Differential Output Fall Time (80% to 20%)	$V_{IC}$ = $V_{ID}$ /2 to $V_{CC}$ – $(V_{ID}$ /2) Duty Cycle=50%	0.29	0.40	0.58	ns
t <sub>SK(P)</sub>	Pulse Skew  tplh - tphl	Figure 3		0.02	0.20	ns
t <sub>SK(LH)</sub>	Channel-to-Channel			0.02	0.15	20
t <sub>SK(HL)</sub>	Skew <sup>(1)</sup>			0.02	0.15	ns
t <sub>SK(PP)</sub>	Part-to-Part Skew <sup>(2)</sup>				0.5	ns
f <sub>MAX</sub>	Maximum Frequency (3)(4)		400	>630		MHz
t <sub>PZHD</sub>	Differential Output Enable Time from Z to HIGH	$R_L=100\Omega$ , $C_L=5pF$ Figure 4, Figure 5		3.0	5.0	ns
t <sub>PZLD</sub>	Differential Output Enable Time from Z to LOW			3.1	5.0	ns
t <sub>PHZD</sub>	Differential Output Disable Time from HIGH to Z			2.2	5.0	ns
t <sub>PLZD</sub>	Differential Output Disable Time from LOW to Z			2.5	5.0	ns
t <sub>DJ</sub>	LVDS Data Jitter, Deterministic	V <sub>ID</sub> =300mV, PRBS=2 <sup>23</sup> -1, V <sub>IC</sub> =1.2V at 800Mbps		80	135	ps
t <sub>RJ</sub>	LVDS Clock Jitter, Random (RMS)	V <sub>ID</sub> =300mV V <sub>IC</sub> =1.2V at 400Mbps		1.9	3.5	ps

#### Notes:

- 1.  $t_{SK(LH)}$ ,  $t_{SK(HL)}$  is the skew between specified outputs of a single device when the outputs have identical loads and are switching in the same direction.
- 2. t<sub>SK(PP)</sub> is the magnitude of the difference in propagation delay times between any specified terminals of two devices switching in the same direction (either LOW-to-HIGH or HIGH-to-LOW) when both devices operate with the same supply voltage, same temperature, and have identical test circuits.
- 3. Passing criteria for maximum frequency is the output  $V_{OD}$  >250mV and the duty cycle is better than 45% / 55% with all channels switching.
- 4. Output loading is transmission-line environment only; C<sub>L</sub> is <1pF of stray test fixture capacitance.

#### **Test Diagrams**

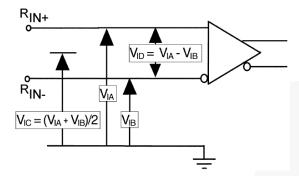
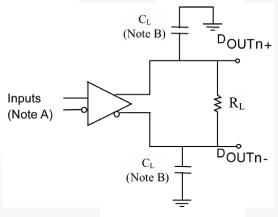
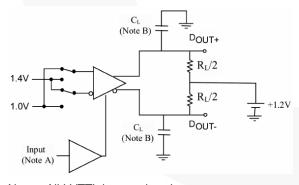


Figure 3. Differential Receiver Voltage Definitions



Notes: All LVDS input pulses have frequency=10MHz, t<sub>R</sub> or t<sub>F</sub><0.5ns. C<sub>L</sub> includes all probe and jig capacitance.

Figure 5. Differential Driver Propagation Delay and Transition Time Test Circuit



Notes: All LVTTL input pulses have frequency=10MHz, t<sub>R</sub> or t<sub>F</sub><2ns. C<sub>L</sub> includes all probe and jig capacitance.

Figure 7. Differential Driver Enable and Disable Circuit

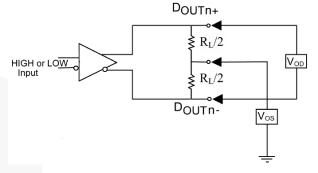


Figure 4. Differential Driver DC Test Circuit

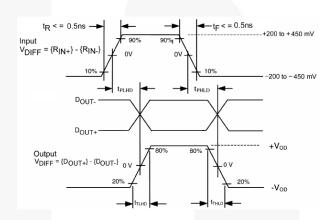


Figure 6. AC Waveform

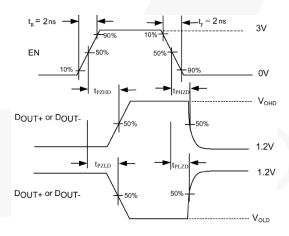


Figure 8. Enable and Disable AC Waveforms

#### **Physical Dimensions** 12.50±0.10 0.40 TYP -B- $6.10\pm0.10$ 4.60 9.20 8.10 4.05 19 0.2 C B A 6 24 ALL LEAD TIPS PIN #1 IDENT. - 0.30 - 0.50 LAND PATTERN RECOMMENDATION △ 0.1 C SEE DETAIL A 1.2 MAX $0.90^{+0.15}_{-0.10}$ ALL LEAD TIPS -C-0.09-0.20-0.10±0.05 0.17-0.27 0.50 ⊕ 0.13M A BS CS 12.00° TOP & BOTTOM DIMENSIONS ARE IN MILLIMETERS R0.16 GAGE PLANE R0.31 0.25 NOTES: A. CONFORMS TO JEDEC REGISTRATION MO-153, VARIATION ED, DATE 4/97. SEATING PLANE 0.60±0.10 B. DIMENSIONS ARE IN MILLIMETERS. 1.00 C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS. D. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M, 1982. DETAIL A MTD48REVC

Figure 9. 48-Lead, Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 6.1mm Wide

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