

製品概要

NB7L111M: Clock / Data Driver, 2:1:10 Differential, 6.125 Gbps, 2.5 V / 3.3 V, with CML Output

技術情報は、データシートをご参照ください。

The NB7L111M is a low skew 2:1:10 differential clock/data driver, designed with clock/data distribution in mind. It accepts two clock/data sources into multiplexer input and reproduces ten identical CML differential outputs. This device is ideal for clock/data distribution across the backplane or a board, and redundant clock switchover applications. The input signals can be either differential or single-ended (if the external reference voltage is provided). Differential inputs incorporate internal 50 Ohm termination resistors and accept Negative ECL (NECL), Positive ECL (PECL), LVCMOS, LVTTTL, CML, or LVDS (using appropriate power supplies). The differential 16 mA CML output provides matching internal 50 Ohm termination, and 400 mV output swing when externally terminated 50 Ohm to VCC. The NB7L111M operates from a 2.5 V +/-5% supply or a 3.3 V +/- 5% supply and is guaranteed over the full industrial temperature range of -40C to +85C. This device is packaged in a low profile 8x8 mm, QFN-52 package with 0.5 mm pitch (see package dimension on the back of the datasheet). Application notes, models, and support documentation are available at www.onsemi.com.

特長

- Maximum Input Clock Frequency > 5.5 GHz Typical
- Maximum Input Data Rate > 6.125 Gb/s Typical
- < 0.5 ps Maximum Clock RMS Jitter
- < 15 ps Maximum Data Dependent Jitter at 3.125 Gb/s
- 50 ps Typical Rise and Fall Times
- 240 ps Typical Propagation Delay
- 2 ps Typical Duty Cycle Skew
- 10 ps Typical Within Device Skew
- 15 ps Typical Device-to-Device Skew
- Operating Range: 2.5 V ±5% and 3.3 V ±5%

For more features, see the data sheet

アプリケーション

- SATA, PCI Express Gen2 4xFC & GbE Data Fan-out
- Precision Clock Distribution / Switchover

電氣的仕様

製品	Compliance	Status	Type	Channels	Input / Output Ratio	Input Level	Output Level	V _{CC} Typ (V)	t _{Jitter} RMS Typ (ps)	t _{skew(0-90)} Max (ps)	t _{pd} Typ (ns)	t _r & t _f Max (ps)	f _{max,Clock} Typ (MHz)	f _{max,Data} Typ (Mbps)	Package Type
NB7L111MMNG	Pb-free	Active	Buffer	1	2:1:10	LVD	CML	2.5	0.2	20	0.24	75		6000	QFN-52
	S														
	ECL														
	CMOS														
	CML														
TTL															

詳細は、弊社 www.onsemi.jp の営業または販売代理店にお問い合わせください。

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