

製品概要

NB7L572: Input Mux - 4:1 Differential, 2.5 V / 3.3 V, Clock / Data Fanout Buffer - 1:2 LVPECL

技術情報は、データシートをご参照ください。



The NB7L572 is a high performance differential 4:1 Clock/Data input multiplexer and a 1:2 LVPECL Clock/Data fanout buffer. The INx/INxb inputs include internal 50-ohm termination resistors and will accept differential LVPECL, CML or LVDS logic levels. The NB7L572 incorporates a pair of Select pins that will choose one of four differential inputs and will produce two identical LVPECL output copies of Clock or Data operating up to 7GHz or 10Gb/s, respectively. As such, NB7L572 is ideal for SONET, GigE, Fiber Channel, Backplane and other Clock/Data distribution applications. The NB7L572 INx/INxb inputs, outputs and core logic are powered by a 2.5 V +/-5% or 3.3V +/-10% power supply. The two differential LVPECL outputs will swing 750mV when externally terminated with a 50-ohm resistor to VCC - 2V, and are optimized for low skew and minimal jitter. The NB7L572 is offered in a low profile 5mm x5mm 32-pin QFN Pb-free package. Application notes, models, and support documentation are available at www.onsemi.com. The NB7L572 is a member of the GigaComm family of high performance clock products.

特長

- Input Data Rate > 11 Gb/s Typical
 - Data Dependent Jitter < 15 ps
 - Maximum Input Clock Frequency > 8 GHz Typical
 - Random Clock Jitter < 0.8 ps RMS
 - Low Skew 1:2 LVPECL Outputs, < 10 ps max
 - 4:1 MultiLevel Mux Inputs, Accepts LVPECL, CML LVDS
 - 150 ps Typical Propagation Delay
 - Differential LVPECL Outputs, 750 mV Peak-to-Peak, Typical
 - Operating Range: VCC = 2.375 V to 3.6 V
 - Internal 50-ohm Input Termination Resistors
- For more features, see the data sheet

アプリケーション

- Redundant Clock / Data distribution
- SONET/SDH/Fibre Channel/Gigabit Ethernet Clock / Data distribution

最終製品

- Servers and Routers

電気的仕様

| 製品 | Compliance | Status | Input/Output Ratio | Channels | Input Level | Output Level | V _{CC} Typ (V) | f _{Max} Typ (MHz) | t _{Jitter} Typ (ps) | t _{skew(OO) Max} (ps) | t _{pd} Typ (ns) | Package Type |
|--------------|-------------|--------|--------------------|----------|-------------|--------------|-------------------------|----------------------------|------------------------------|--------------------------------|--------------------------|--------------|
| NB7L572MNG | Pb-free | Active | 4:2 | 1 | LVDS | ECL | 2.5 | 8000 | 0.5 | 10 | 0.175 | QFN-32 |
| | Halide free | | | | CML | | 3.3 | | | | | |
| | | | | | ECL | | | | | | | |
| NB7L572MNR4G | Pb-free | Active | 4:2 | 1 | LVDS | ECL | 2.5 | 8000 | 0.5 | 10 | 0.175 | QFN-32 |
| | Halide free | | | | ECL | | 3.3 | | | | | |
| | | | | | CML | | | | | | | |

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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