

Analog Multiplexer Single 16:8 48-Pin TSSOP T/R

Manufacturer: [Diodes Inc](#)

Package/Case: TSSOP-48

Product Type: Switches

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

PI3L301DAEX Image

Images are for reference only

[Inquiry](#)

General Description

Diodes' PI3L series of logic circuits are produced using the Company's advanced sub-micron CMOS technology, achieving industry leading performance. The PI3L301D is a 16- to 8-bit multiplexer/demultiplexer LAN Switch. Industry leading advantages include a propagation delay of less than 250ps, resulting from its low channel resistance and I/O capacitance. The device multiplexes differential outputs from a Gigabit Ethernet transceiver (PHY) device to one of two corresponding B1 or B2 outputs. The switch is bidirectional and offers little or no attenuation of the high-speed signals at the outputs. It is designed for low bit-to-bit skew, high channel-to-channel noise isolation and is compatible with various standards, such as 10/100/ 1000 Base-T (Ethernet). Generally, this part can be used to replace mechanical relays in low-voltage LAN applications that interface a physical layer over CAT 5 or CAT 6 unshielded twisted pair cable through an isolation transformer.

Key Features

RON is 4Ω typical

Low bit-to-bit skew: 200ps

Low crosstalk: -27dB @ 250MHz

Low Current Consumption: 20μA

Near-Zero propagation delay: 250ps

Switching speed: 9ns

Channel On-Capacitance: 9.5pF (typical)

VCC Operating Range: +3.0V to +3.6V

ESD >3000V . . . Human Body Model

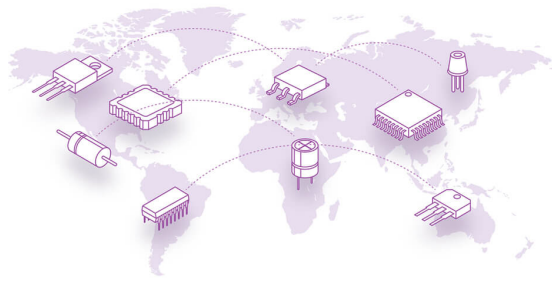
Packaging (Pb-free & Green available): 48-pin 240 mil wide plastic TSSOP (A)

Application

Dual Physical Layer Device sharing to one interface connector

SONET OC-12(622Mbps) signal routing

Routes physical layer signals for 10/100/1000 Mbit Ethernet



Recommended For You

PI4MSD5V9546AZYEX

Diodes Inc

QFN

PI5USB30213XEAEX

Diodes Inc

QFN24

PI3B3257AQE

Diodes Inc

QSOP16

PI3USB102ZLEX

Diodes Inc

TQFN10

PI3USB221EZUAEX

Diodes Inc

QFN10

PI3USB32212ZLEX

Diodes Inc

QFN

PI2PCIE2422ZHE

Diodes Inc

QFN

PI3USB221EZWEX

Diodes Inc

UDFN3030-10

PI3A27518ZDEX

Diodes Inc

QFN

PI3USB30532ZLEX

Diodes Inc

TQFN40

PI3PCIE3412AZHEX

Diodes Inc

TQFN-42

PI2PCIE2412ZHE

Diodes Inc

QFN

PI3DBS16222ZLEX

Diodes Inc

QFN

PI3PCIE3412ZHE

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QFN

PI4MSD5V9546ALEX

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