



New Product Announcement

PI3L2500

2.5/5/10Gbps Ethernet LAN Switch

The PI3L2500 is a 2.5Gbps-10Gbps 8-channel 2:1 multiplexer/demultiplexer LAN switch.

Industry-leading advantages include 3GHz -3dB bandwidth, which results in good signal fidelity at up to 10Gbps data rate. The device multiplexes differential outputs from a 2.5/5/10Gbps Ethernet transceiver (PHY) device to one of two outputs or enables one of two PHY device to a common RJ45 connector. The switch is bidirectional and offers negligible attenuation of the high-speed signals at the output. It is designed for low bit-to-bit skew, high channel-to-channel noise isolation, and is compatible with 1000/2500/5000/10000 Base-T Ethernet.

The PI3L2500 provides a power-down input, which can put the device into standby mode when not in use, thereby saving power.



The DIODES Advantage

LAN Signal Switching up to 10Gbps/second Ethernet

- **8-Channel 2-to-1 Mux/Demux**
Handles 2.5Ge-10GE Ethernet signals
- **3GHz -3dB Signal Bandwidth**
Enables Ethernet signals up to 10Gbps data rate
- **Very Low On-Resistance 4Ω Max and Low Off/On Capacitance**
Minimal attenuation of the signal and enable 10GE Ethernet
- **Very Low Xtalk and Off-Isolation -35dB**
Good signal fidelity

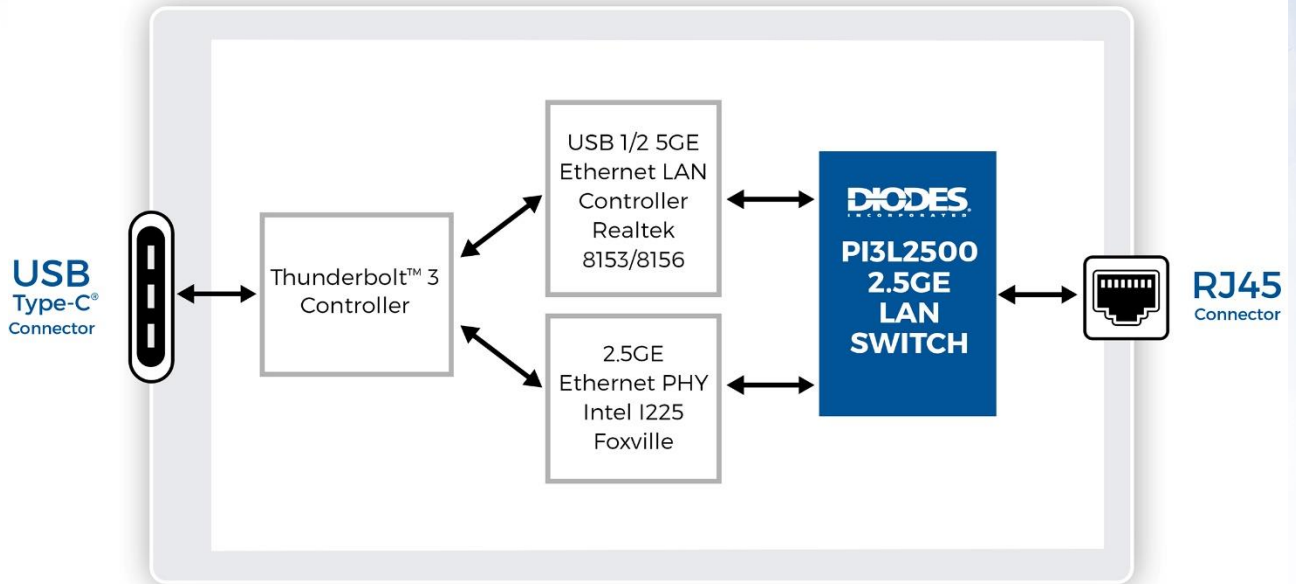
Applications

- Notebook
- Thunderbolt™ Dock
- Packet Transport Network
- Corporate Network

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Application Diagram



Product Portfolio

Part Number	Configuration	# of Diff Channels	Voltage Support	Package	Temperature Range
PI2L2500	1:02	8	3V to 3.6V	42 TQFN (3.5mmx9mm)	-40°C to 85°C

Ordering Information

MPN	Packaging	MOQ
PI3L2500ZHEX	42-TQFN	3500