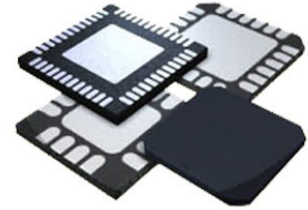


## Digital Crosspoint Single 8x8 4.25Gbps 64-Pin LFCSP EP Tray



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Analog Devices, Inc](#)

**Package/Case:** QFN

**Product Type:** Switches

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The receive inputs provide programmable equalization with nine settings to compensate for up to 30 in. of FR4 and programmable pre-emphasis with seven settings to compensate for up to 30 in. of FR4 at 4.25 Gbps.

The ADN4600 nonblocking switch core implements an 8 × 8 crossbar and supports independent channel switching through the I2C control interface. Every channel implements an asynchronous path supporting NRZ data rates from dc to 4.25 Gbps. Each channel is fully independent of other channels. The ADN4600 has low latency and very low channel-to-channel skew.

The main application for the ADN4600 is to support switching on the backplane, line card, or cable interface sides of serial links.

The ADN4600 is packaged in a 9 mm × 9 mm, 64-lead LFCSP package and operates from -40°C to +85°C.

## Key Features

Full 8 × 8 crossbar connectivity

Fully buffered signal path supports multicast and broadcast operation

Optimized for dc to 4.25 Gbps data

Programmable receive equalization

Compensates for up to 30 in. of FR4 @ 4.25 Gbps

Programmable transmit pre-emphasis/de-emphasis

Compensates for up to 30 in. of FR4 @ 4.25 Gbps

Flexible 1.8 V to 3.3 V core supply

Per lane positive/negative (P/N) pair inversion for routing ease

Low power: 125 mW/channel at 4.25 Gbps

DC- or ac-coupled differential CML inputs

Programmable CML output levels

50 Ω on-chip termination

Supports 8b10b, scrambled or uncoded nonreturn-to-zero (NRZ) data

I2C control interface

Package: 64-lead LFCSP

## Application

1×, 2×, 4× FibreChannel

XAUI

Gigabit Ethernet over backplane

10GBase-CX4

InfiniBand®

50 Ω cables

## Recommended For You

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### AD1803JRU

Analog Devices, Inc  
TSSOP24

### AD1847JP

Analog Devices, Inc  
PLCC

### AD8109ASTZ

Analog Devices, Inc  
QFP

### AD8115ASTZ

Analog Devices, Inc  
QFP

### AD1980JST-REEL

Analog Devices, Inc  
QFP48

### AD1836AAS

Analog Devices, Inc  
QFP52

### AD1843JS

Analog Devices, Inc  
QFP

### AD1888JCPZ-REEL

Analog Devices, Inc  
LFCSP-48

### AD8116JSTZ

Analog Devices, Inc  
QFP128

### ADV601LCJST

Analog Devices, Inc  
QFP

### ADV611JST

Analog Devices, Inc  
QFP

### AD8152JBPZ

Analog Devices, Inc  
BGA

**ADN4605ABPZ**

Analog Devices, Inc

BGA

**AD8113JSTZ**

Analog Devices, Inc

QFP

**ADN4612ACPZ**

Analog Devices, Inc

LFCSP-88