
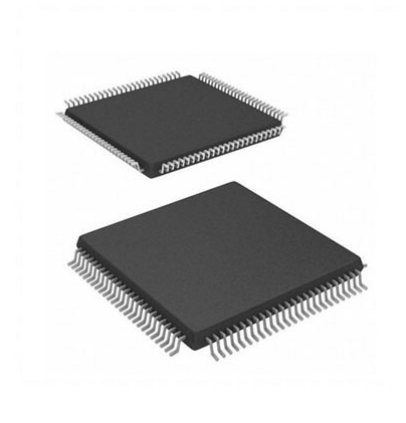


## Digital Crosspoint Single 16x16 4.25Gbps 100-Pin TQFP EP Tray

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	TQFP100
<b>Product Type:</b>	Switches
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

The ADN4604 is optimized for nonreturn-to-zero (NRZ) signaling with data rates of up to 4.25 Gbps per port. Each port offers a fixed level of input equalization and programmable output swing and output preemphasis.

The ADN4604 nonblocking switch core implements a 16 × 16 crossbar and supports independent channel switching through the serial control interface. The ADN4604 has low latency and very low channel-to-channel skew.

An I2C® or SPI interface is used to control the device and provide access to advanced features, such as additional levels of preemphasis and output disable. The ADN4604 is packaged in a 100-lead TQFP package and operates from -40°C to +85°C.

### Key Features

- DC to 4.25 Gbps per port NRZ data rate
- Programmable receive equalization
- Programmable transmit preemphasis/deemphasis
- Low power: 130 mW per channel at 3.3 V (outputs enabled)
- 16 × 16, fully differential, nonblocking array
- Low jitter, typically 20 ps
- Flexible I/O supply range
- DC- or ac-coupled differential CML inputs
- Programmable CML output levels
- Per-lane input P/N pair inversion for routing ease
- 50 Ω on-chip I/O termination
- Supports 8b/10b, scrambled or uncoded NRZ data
- See data sheet for additional Features

### Application

- Fiber optic network switching
- High speed serial backplane routing to OC-48 with FEC
- XAUI: 10GBASE-KX4
- Gigabit Ethernet over backplane: 1000BASE-KX
- 1×, 2×, and 4× Fibre Channel
- InfiniBand®
- Digital video (HDMI, DVI, DisplayPort, 3G-/HD-/SD-SDI)
- Data storage networks

## 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

### **ADN4600ACPZ**

Analog Devices, Inc  
QFN

### **AD8152JBPZ**

Analog Devices, Inc  
BGA

### **ADN4605ABPZ**

Analog Devices, Inc  
BGA

### **AD8113JSTZ**

Analog Devices, Inc  
QFP