

Digital Crosspoint Single 34x34 3.2Gbps 256-Pin SBGA Tray

Manufacturer: [Analog Devices, Inc](#)

Package/Case: BGA

Product Type: Switches

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

[Inquiry](#)

General Description

The AD8152 is a breakthrough cross point switch offering a large switch array (34×34) on very little power, typically 2.0 W. Additionally, the device operates at data rates up to 3.2 Gbps per port, making it suitable for Sonet/SDH OC-48 with forward error correction (FEC). The useful supply voltage range of the AD8152 allows the user to operate at LVPECL/CML data levels down to 2.5 V. The control interface is low voltage transistor transistor logic (LVTTTL) or low voltage complementary metal-oxide (LVCMOS) compatible on 2.5 V to 3.3 V. The fully differential signal path of the AD8152 reduces jitter and crosstalk and allows the use of smaller single-ended voltage swings. The device is offered in a 256-ball BGA_ED package that operates over the industrial temperature range of 0°C to 85°C.

Key Features

Low cost

Low power: 2.5 V (outputs disabled)

34 × 34, fully differential, nonblocking array

3.2 Gbps per port NRZ data rate

Wide power supply range: 2.5 V to 3.3 V

LVTTL or LVCMOS level control inputs at 2.5 V to 3.3 V

Low channel jitter: 45 ps

P-P

Drives a backplane directly

Programmable output swing

100 mV to 1600 mV

P-P

50 Ω on-chip input/output termination

User controlled voltage at the load

Minimizes power dissipation

Dual rank latches

Available in 256-ball BGA_ED package

Application

Fiber optic network switching

High speed serial backplane routing to OC-48 with FEC

Gigabit ethernet

Digital video (HDTV)

Data storage networks

Recommended For You

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

ADN4605ABPZ

Analog Devices, Inc

BGA

AD8113JSTZ

Analog Devices, Inc

QFP

ADN4612ACPZ

Analog Devices, Inc

LFCSP-88