PRODUCT BRIEF

PI2SSD3212
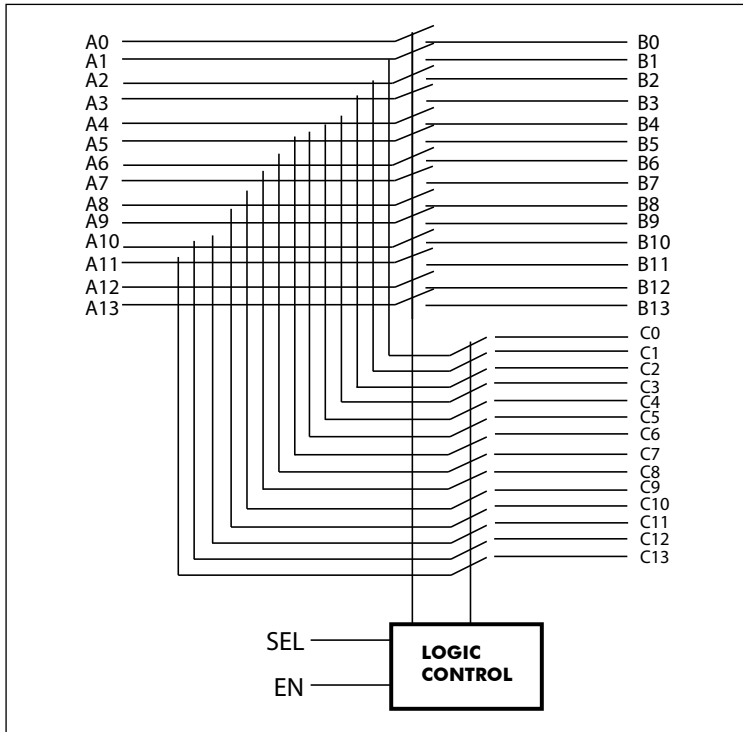## 1.35V/ 1.5V/1.8V 14 bit 2:1 SSD Switch

This 14-bit SSD switch is designed for 1.35V/ 1.5V/ 1.8V supply voltage, POD_12, SSTL_135, SSTL_15 or SSTL_18 signaling and CMOS select input signals. It is designed for DDR2 or DDR3 memory bus with speed up to 5Gbps. It supports DDR3 1866 Mbps.

PI2SSD3212 has a 1:2 demux or 2:1 mux topology. All 14-bit channels can be switched to one of the two ports simultaneously with the SEL input. This device also allows all ports to be disconnected.

PI2SSD3212 uses Pericom's proprietary high speed switch technology providing consistent high bandwidth across all channels, with very little insertion loss, cross-talk, and bit to bit skew.

It is available in a 52-pin TQFN 3.5x9x0.4mm package and 48-pin TFBGA 4.5x4.5x0.8mm package.

Block Diagram

Features

→ 14 bit 2:1 switch that supports high speed ONFI DDR3 800 2133 Mbps

→ VDD 1.35V/ 1.5V/ 1.8V

→ Flow through pinout option for easy layout

→ SEL and Global Enable

→ 110 µA typ. operating current at 1.35V VDD.

→ High impedance and low C_{off} channel output when disabled or deselected

→ Low R_{ON}: 8Ω typical

→ 3dB Bandwidth: 3.3GHz

→ Low insertion loss: -0.7dB ($0 \leq f \leq 1$ GHz)

→ Low return loss: -23dB ($0 \leq f \leq 1$ GHz)

→ Low cross-talk for high speed channels: -25dB typ. ($0<f<2$GHz)

→ High off-isolation: -28dB ($0 \leq f \leq 1$ GHz)

→ Low bit-to-bit skew 20ps Max

→ ESD: 2KV HBM

→ POD_12, SSTL_12, SSTL_135, SSTL_15 or SSTL_18 signaling

→ Packaging (Pb-free and Green)
  ▫ 52 pin TQFN (3.5x9x0.4mm)
  ▫ 48 pin TFBGA (4.5x4.5x0.8mm)

Applications

→ DDR3/DDR4 Memory Bus System

→ SSD Memory Bus System

→ NVDIMM Module

→ Flash Memory Array sub system

→ High Speed multiplexing

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard Clock Oscillators *category:*

Click to view products by Diodes Incorporated *manufacturer:*

Other Similar products are found below :

601252 F335-12 F335-25 F535L-33.333 F535L-50 ASV-20.000MHZ-LR-T ECS-2018-160-BN-TR EL13C7-H2F-125.00M MXO45HS-2C-66.6666MHZ SiT8209AI-32-33E-125.000000 SM4420TEV-40.0M-T1K F335-24 F335-40 F535L-10 F535L-16 F535L-24 F535L-27 F535L-48 PE7744DW-100.0M CSX-750FCC14745600T ASF1-3.686MHZ-N-K-S XO57CTECNA3M6864 ECS-2100A-147.4 601251 EP16E7E2H26.000MTR SIT8918AA-11-33S-16.000000G XO3003 9120AC-2D2-33E212.500000 9102AI-243N25E100.00000 8208AC-82-18E-25.00000 ASDK2-32.768KHZ-LR-T3 8008AI-72-XXE-24.545454E 8004AC-13-33E-133.33000X AS-4.9152-16-SMD-TR ASFL1-48.000MHZ-LC-T SIT8920AM-31-33E-25.0000 DSC1028DI2-019.2000 9121AC-2C3-25E100.00000 9102AI-233N33E100.00000X 9102AI-233N25E200.00000 9102AI-232H25S125.00000 9102AI-133N25E200.00000 9102AC-283N25E200.00000 9001AC-33-33E1-30.000 3921AI-2CF-33NZ125.000000 5730-1SF PXA000010 SIT1602BC-83-33E-10.000000Y 8003AI-12-33S-40.00000Y 1602BI-13-33S-19.200000E