

# Standard Linear & Logic

## Questions To Assist In Customer Designs



### 1. How do you protect your Interfaces from ESD? [www.ti.com/esd](http://www.ti.com/esd)

Part Number	Description
TPD12S520	HDMI Receiver Port Protection and Interface Device TSSOP (DBT 4.40 X 9.70)
TPD8S009	8-Channel ESD Solution for HDMI/DisplayPort SON (DSM 6.50 X 2.50)
TPD4S012	4-Channel USB ESD Solution with Power Clamp UQFN (DRY 1.45 X 1.00) WCSP (YFP 0.77 X 1.17)
TPD2E009	2-Channel ESD Protection Array for High-Speed Data Interfaces SOT (DRT 1.00 X 1.00) SOT23 (DBZ 2.92 X 2.37) UQFN (DRY 1.45 X 1.00)
TPD2E007	2-Channel ESD Protection Array for AC Signal Data Interface SC-70 (DCK 2.00 X 2.10) WCSP (YFM 0.77 X 0.77)

### 2. Are you doing any Signal Switching? [www.ti.com/switches](http://www.ti.com/switches)

Part Number	Description
TS5A22364	0.65- $\Omega$ Dual SPDT Analog Switch with Negative Rail Capability VSSOP (DGS 3.00 X 3.00), VSON (DRC 3.00 X 3.00), WCSP (YZP 1.40 X 1.90)
TS5A9411	10- $\Omega$ SPDT Analog Switch SC-70 (DCK 1.25 X 2.00)
TS3A44159	0.45- $\Omega$ Quad SPDT Analog Switch Quad-Channel 2:1 Multiplexer/Demultiplexer with Two Controls TSSOP (PW 5.00 X 6.40), SSOP/QSOP, (RGT 3.05 X 3.05), UQFN (RSV 2.60 X 1.80)
TS12A4514	Low-Voltage, Low On-State Resistance SPST CMOS Analog Switches PDIP (P 9.81 X 6.30), SOIC (D 4.90 X 6.00)
TS3A27518E	6-Bit, 1-of-2 Mux/Demux with 240 MHz Bandwidth TSSOP (PW 6.40 X 7.80)

### 3. What do you use for Voltage Level Translation? [www.ti.com/translation](http://www.ti.com/translation)

Part Number	Description
SN74AUP1T97	Single-Supply Voltage Translator SOT-23 (DBV 2.90 X 2.80), SC-70 (DCK 2.00 X 2.20), WCSP (YZP 1.40 X 1.90)
TXS0104E	4-Bit Bidirectional Voltage-Level Translator for Open-Drain Applications TSSOP (PW 4.40 X 5.00), SOIC (D 3.91 X 8.65), WCSP (YZP/YZT 1.40 X 1.90), UFBA (GXU/ZXU 2.50 X 2.00), QFN (RGY 3.50 X 3.50)
TXB0108	8-Bit Bidirectional Voltage-Level Translator with Auto Direction Sensing TSSOP (PW 4.40 X 6.50), UFBGA (GXU/ZXU 3.00 X 2.50), QFN (3.50 X 4.50)
AVC16T245	16-Bit Dual-Supply Bus Transceiver with Configurable Voltage Translation and 3-State Outputs TVSOP (DGV 9.70 X 6.40), TSSOP (DGG 12.50 X 8.10), VFBGA (GQL/ZQL 7.00 X 4.50)
TWL1200	SDIO, UART, and Audio Voltage-Level Transceiver BGA (ZQC 4.00 X 4.00), WCSP (YFF 2.00 X 2.00)

### 4. Got enough GPIO's? [www.ti.com/i2c](http://www.ti.com/i2c)

Part Number	Description
PCA9517	Level-Translating I2C Bus Repeater VSSOP (DGK 3.00 X 4.90), SOIC (D 3.91 X 4.90)
P82B96	Dual Bidirectional Bus Buffer TSSOP (PW 4.40 X 3.00), PDIP (P 9.81 X 6.35), SOIC (D 3.91 X 4.90)
TCA6507	Low-Voltage, 7-Bit, I2C and SMBus LED Driver w/Intensity Control and Shutdown TSSOP (PW 4.40 X 5.00), UFBGA (GXU/ZXU 2.50 X 2.00), QFN (RUE 1.40 X 2.00)
TCA4311	Hot Swappable 2-Wire Bus Buffers VSSOP (DGK 3.00 X 4.90), SOIC (D 3.91 X 4.90)
TMP75	Digital Temperature Sensor with 2-Wire Interface SOIC-8 (D 4.90 X 6.00), MSOP-8 (DGK 3.00 X 4.90)

Availability: TI has the largest dedicated machine capacity for +1 products.

All dimensions in millimeters (mm)

Pricing: TI offers competitive pricing in all market conditions.

Obsolescence: TI rarely obsoletes devices, and offers the most generous LTB conditions in the industry. ([www.ti.com/ltb](http://www.ti.com/ltb))

Free samples are available for all +1, to order please visit: [www.ti.com/plusone](http://www.ti.com/plusone)

© 2009 Texas Instruments Incorporated

The platform bar and Eco-mode are trademarks of Texas Instruments. All other trademarks are the property of their respective owners.

