

USB3740

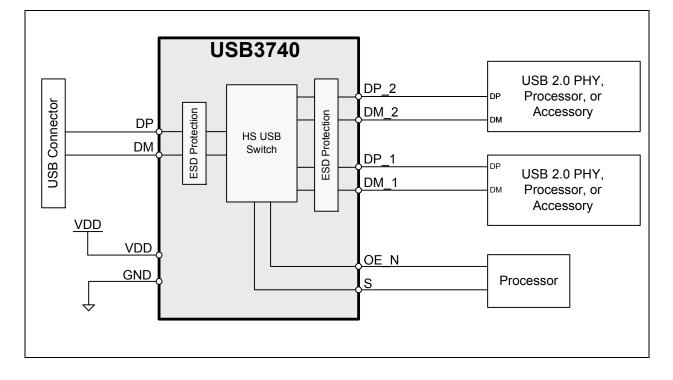


High Speed Switch for Mobile and Portable Applications

PRODUCT FEATURES

- High Speed USB Mux for multiplexing the USB lanes between different functions
 - Switch the USB connector between two different functions
 - Up to 1GHz Bandwidth
- USB Port ESD Protection (**DP/DM**)
 - ±15kV (air discharge)
 - ±15kV (contact discharge)
 - IEC 61000-4-2 level 4 ESD protection without external devices
- flexPWRTM Technology
 - 30nA Active/Standby Current
 - Extremely low power design ideal for battery powered applications

- Control inputs accommodate 1.8V to 5V inputs
- DP/DM tolerate up to 5.5V
- Industrial Operating Temperature -40°C to +85°C
- 10 pin, QFN lead-free RoHS compliant package; (1.3mm x 1.8mm x 0.55mm height, 0.4mm pitch)
- 10 pin, QFN lead-free RoHS compliant package; (1.6mm x 2.1mm x 0.55mm height, 0.5mm pitch)



USB3740 Block Diagram

Data Brief



Order Numbers:

USB3740B-AI2-TR for 10-pin, 1.3mm x 1.8mm QFN lead-free RoHS compliant package USB3740B-AI9-TR for 10-pin, 1.6mm x 2.1mm QFN lead-free RoHS compliant package

This product meets the halogen maximum concentration values per IEC61249-2-21 For RoHS compliance and environmental information, please visit www.smsc.com/rohs



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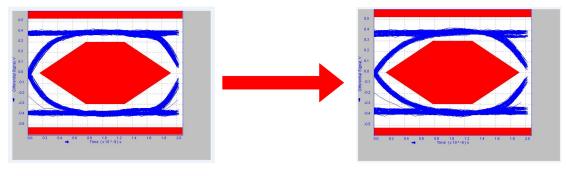
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General Description

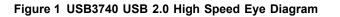
The USB3740 is a USB 2.0 compliant High Speed switch that provides robust ESD protection to the interface in an extremely small package. Outstanding ESD robustness eliminates the need for external ESD protection devices to save eBOM cost and PCB area.

The high bandwidth capabilities of the USB3740 enable extremely low high frequency loss and an exceptionally clean USB 2.0 High Speed eye diagram.



Input to Switch

Output of Switch





Package Outlines

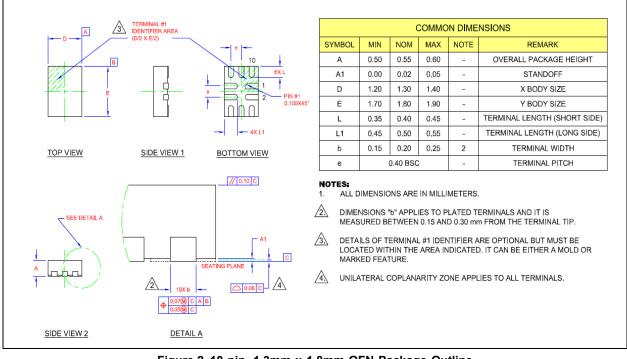


Figure 2 10 pin, 1.3mm x 1.8mm QFN Package Outline

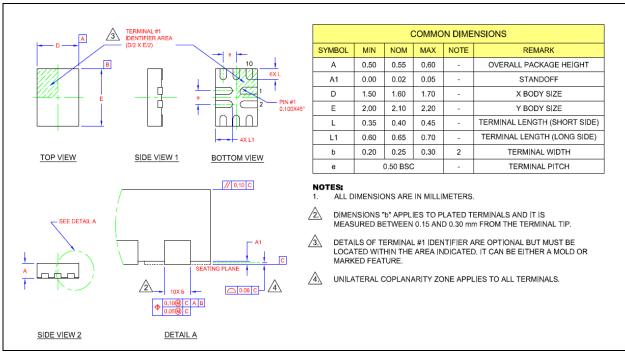


Figure 3 10 pin, 1.6mm x 2.1mm QFN Package Outline

PRODUCT PREVIEW

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