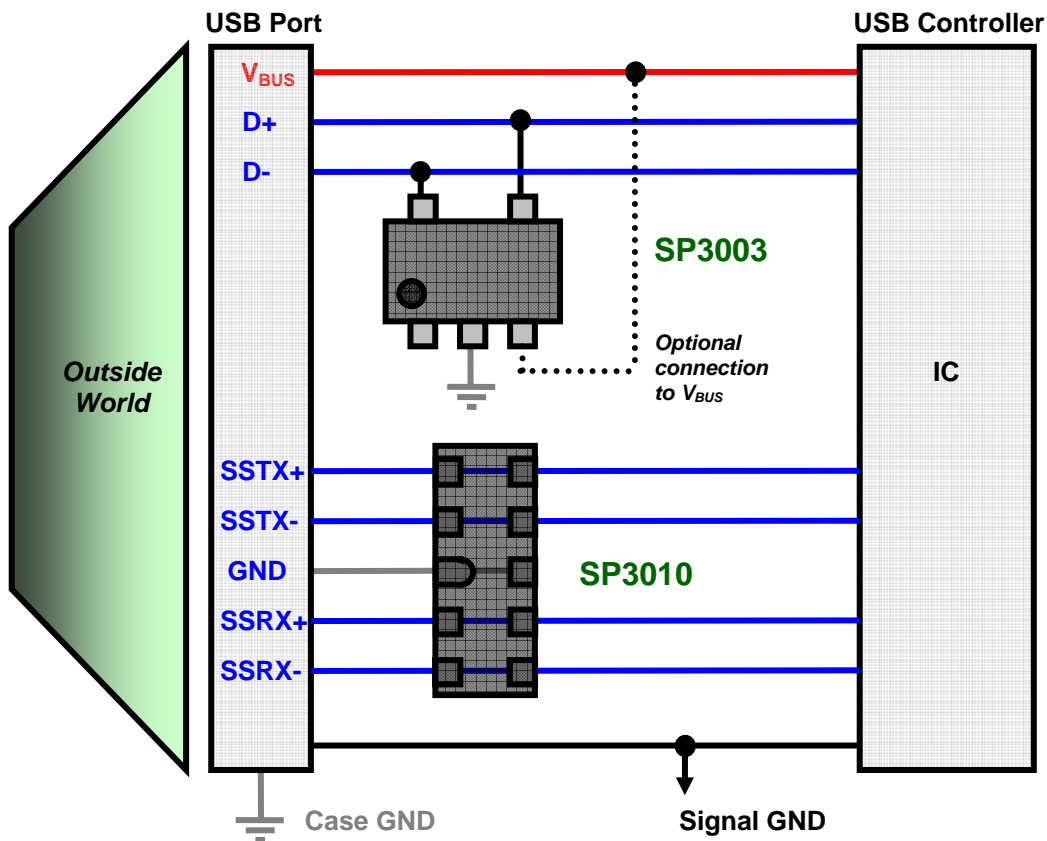


Application Guide USB3.0

Considerations:

- Each port depending upon what it's connected to can operate:
 - Up to 5Gbps over the new super-speed data pairs
 - Up to 480Mbps on the legacy data pair
- Requires 4 channels of ultra-low capacitance protection for the super-speed data pair (i.e. **SSTX+/-** and **SSRX+/-**)
- Requires 2 channels of protection for the legacy **D+/-** data pair
 - **V_{BUS}** can be protected by connecting it to the **V_{CC}** pin on the SPA or by using a separate single channel device

Application Schematic:



Recommended SPA Devices:

Ordering Number	ESD Level (Contact)	I/O Capacitance	# of Channels	V _{RWM}	Packaging
SP3003-02XTG	±8kV	0.65pF	2	6V	SOT553
SP3010-04UTG	±8kV	0.45pF	4	6V	μDFN-10 (2.5x1.0mm)