Part Number: EVB-USB5807





EVB-USB5807 EVALUATION BOARD ☆

- Microchip's FlexConnect, PortSwap, PHYBoost™, and VariSense™ technologies.
- USB5807 in a 100-pin QFN RoHS compliant package.
- USB 3.1 Gen 1 compliant (SS, HS, FS, and LS operation).
- USB pins are 5 V tolerant.
- Self powered operation.
- Seven downstream USB 2.0 / USB 3.1 Gen 1 ports
- All downstream ports support individual port power and overcurrent sense.
- All downstream ports can be enabled for battery charging with the battery charging select switch SW1 (BC1.2 or SE1, 2.1A max per port).
- Onboard SPI Flash for external downloadable firmware.
- Low-cost 4-layer space saving design.
- Operates from a single voltage (+12.0 V, regulated) external power supply.

In Stock : 44 **(Processes Immediately)**

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Quantity:	USD/unit:
1	$343.99

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design provides 5.2 V at up to 15 A when using a 12 V, 85 W supply.

- Single onboard +3.3 V, 0.5 Amp regulator.
- Single onboard +1.2 V, 2 Amp regulator.
- Port Power LED indicators (note: Requires a 12V, 85W supply).
- SPI Flash activity blue LED indicator. Reset red LED indicator. Green LED indicators for 5V, 3.3V, 1.2V supplies.
- Dual color LED USB Suspend indicator (green=run/yellow=suspend).
- USB Type-C upstream green LED charging capability indicators: 3A, 1.5A, Legacy.
- SMBus current monitor on each USB Type-C downstream port.
- Terminal block connector for use with an external bench supply.
- Removable/non-removable downstream ports can be configured with switch SW2.

Collapse

Overview

accelerate the integration of the USB5807 into the user's design. The EVB-USB5807 is compliant with the USB 3.1 (Gen1) Specification and supports SuperSpeed (SS), High-Speed (HS), Full-Speed (FS), and Low-Speed (LS) USB signaling for complete coverage of all defined USB operation speeds. The evaluation platform supports seven downstream ports that are USB 2.0 and USB 3.1 Gen1 compliant, battery charging on all downstream ports (maximum of 13A at any one time) and is configured for operation through internal default settings and supports custom configurations through SMBus or through the external 16-Mbit SPI Flash device. The EVB-USB5807 demonstrates driver compatibility with Microsoft® Windows® 8x, Windows 7, Windows XP, Mac OS® X 10.4+, and Linux® hub drivers.

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All Application Notes

Documentation

Title	Download	Link
EVB-USB5807/6 Evaluation Board User's Guide	Download	
EVB-USB5806 Evaluation Board Design Files, Altium	Download	
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EVB-USB5807 Evaluation Board Bill of Materials

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