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MAX1785EVSYS Evaluation System for the MAX1785

Overview

Technical Documents

Ordering Info

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All

Status

Part Number	Status
MAX1785EVKIT	Active: In Production. See Ordering Information for details.

Data Sheet

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Description

The MAX1785 evaluation kit (EV kit) demonstrates the capabilities of the MAX1785 advanced smart battery-pack controller. The EV kit includes multiple component networks to utilize the functionality of the Port A (PA) I/O, high-voltage (HV) outputs, SMBus™ interface, and battery-cell terminals. Each network can be configured to provide proper evaluation of the programmed device.

Integrated into the EV kit design is a MAX1906X battery-pack protection circuit that provides overvoltage protection and disconnected-cell detection. The MAX1906X IC works in conjunction with the MAX1785 IC to provide added functionality to the battery-pack controller. An on-board low-dropout (LDO) linear regulator is also included to provide a +3.3V rail voltage and up to a 0.2A load current.

The MAX1785 evaluation system (EV system) includes the MAX1785 EV kit and the MINIQUEB command module. The MINIQUEB provides both an SPI™ and SMBus interface to a PC. The supplied command module allows the kit to be evaluated with Maxim's Multipurpose SMBus Software (MSS), pre-built with the MAX1785 user-interface framework. The required MAX1785 framework and MSS can be downloaded from the Maxim website (www.maxim-ic.com/evkitsoftware).

Key Features

- MINIQUEB Connectivity (SPI and SMBus Interface)
- MAX1906X Overvoltage Protection (Not Installed)
- On-Board Protection Fuse
- On-Board LDO (+3.3V, 0.2A)
- GPIO LEDs and Jumpers
- Stand-Alone Operation
- 9V, 200mA Adaptor
- Battery-Cell String Emulation

Applications/Uses


- Notebook Battery Packs
- Proprietary Battery Packs
- Remote Data Logging

Software/Models

none

Ordering Information

Filters: Part Number: Package: Temperature: ☐ Tape and Reel ☐ Sample

Part Number	Free Sample	Buy	Status 	Package: TYPE PINS FOOTPRINT DRAWING CODE/VAR *	Temp	RoHS/Lead-Free? Materials Analysis
MAX1785EVKIT+		N/A	No Longer Available	KIT; Land Pattern: Not Available		See data sheet
MAX1785EVMINIQUEB#		<input type="button" value="Buy"/>	Active: Data sheet on request only	KIT; Land Pattern: Not Available	-40°C to +85°C	See data sheet
MAX1785EVMINIQUEBUSB#		N/A	No Longer Available	KIT; Land Pattern: Not Available	-40°C to +85°C	See data sheet

- Notes:
1. Other options and links for purchasing parts are listed at: <http://www.maxim-ic.com/sales>.
 2. [Didn't Find What You Need?](#) Ask our applications engineers. Expert assistance in finding parts, usually within one business day.
 3. Part number suffixes: T or T&R = tape and reel; + = RoHS/lead-free; # = RoHS/lead-exempt; -D = drypack; -U/+U on DS parts = cut tape. More: See [Full Data Sheet](#) or [Maxim Product Naming Conventions](#).
 4. * Some packages have variations, listed on the drawing. "PkgCode/Variation" tells which variation the product uses. Note that "+", "#", "-" in the part number suffix describes RoHS status. Package drawings may show a different suffix character.

Products with Similar Part Numbers

MAX1785 Smart Battery-Pack Controller

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