

PMIC Solution for AM62Ax



This product overview shows the Power Management IC (PMIC) solution to power applications using the AM62Ax Sitara™ processors. There are different orderable part numbers (OPNs) for each PMIC family. The specific full orderable shown in the OPN row on [PMIC Solutions to Power AM62Ax Devices](#) was programmed with unique non-volatile memory (NVM) settings and optimized to support the power, sequence, and low-power mode requirements of the AM62A. This document also highlights the resources available to support new designs. The PMIC user's guide and the AM62A starter kit can be used as a guide for integrating the PMIC into a system powering the AM62A Sitara processor.

PMIC Solutions to Power AM62Ax Devices

| | TPS6593-Q1 |
|-------------------|--|
| OPN | TPS65931211RWERQ1 |
| Regulators | 5 DCDCs, 4 LDOs |
| Package | 8 mm × 8 mm 56 pin, VQFN |
| Rating | Automotive Functional Safety, ASIL-B |
| Temperature Range | T _A = -40°C – 125°C T _J = -40°C – 150°C |
| User's Guide | TPS65931211-Q1 PMIC User Guide for AM62A |
| EVM | AM62A starter kit for low-power Sitara™ processors |

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATA SHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to [TI's Terms of Sale](#) or other applicable terms available either on [ti.com](https://www.ti.com) or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

TI objects to and rejects any additional or different terms you may have proposed.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2023, Texas Instruments Incorporated