Product Overview
PMIC for Powering AM62Px Devices

TEXAS INSTRUMENTS

This product overview shows the Power Management IC (PMIC) to power applications using the AM62Px Sitara™ processors. There are multiple orderable part numbers (OPNs) in the TPS6522x-Q1 family. The specific full orderable shown in the OPN row on PMIC for Powering AM62Px Devices was programmed with unique One Time Programmable (OTP) settings and optimized to support the power, sequence, and low-power mode requirements of the AM62P. This document also highlights the resources available to support new designs. The PMIC documentation and the AM62P starter kit can be used as a guide for integrating the PMIC into a system powering the AM62P Sitara™ processor.

PMIC for Powering AM62Px Devices

Parameter	TPS6522x-Q1
OPN	TPS6522*430*RAHRQ1
Regulators	4 DC/DC regulators, 3 LDOs
Package	5mm × 6mm 36 pin, VQFN-HR
Rating	Automotive Functional Safety, ASIL-B targeted [1]
Temperature Range	T_A = –40°C to 125°C T_J = –40°C to 150°C
PMIC documentation	TPS65224-Q1 Power Management IC (PMIC) with 4 Buck converters and 3 LDOs
EVM	AM62P starter kit for low-power Sitara™ processors

(1)   Documentation to aid ISO26262 system design available upon product release.

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