Analog Dialogue	Engineer Zone	Wiki		, F	Ø ∨ Ø ∨	Careers	my√\nalog∨
			lers > Precision Microcontrollers > ADUCM Precision Microcontrollers > ADUCM350	1350		⊕ м	y Analog 📮 Quick Tips
ADUCM	350		Configurable Impedance Network Analyzer & Potentiostat with Integrated Cortex M3 Core				
Overview							
Evaluation Kits							
Documentation							
Reference Materials							
Design Resources							
Discussions							
Sample & Buy							



Overview

Features and Benefits | Product Details

· Measurement capability Impedance measurements Current measurements Amperometry Voltammetry Voltage measurements Potentiometry Analog performance

160 kSPS, 16-bit, precision analog-to-digital converter (ADC) High precision voltage reference Ultra Low Leakage Configurable Switch Matrix 12-bit digital-to-analog converter (DAC) Downloaded from Arrow.com.

Product Categories

Processors & DSP

Precision Microcontrollers

Markets & Technology

Instrumentation & Measurement

- Impedance Measurement and Analysis
- Chemical Analysis & Analytical Instruments

Healthcare

• Life Sciences & Medical

Autonomous analog front-end (AFE) controller Direct digital synthesizer (DDS)/arbitrary waveform generator Receive filters Complex impedance measurement (DFT) engine • Processing 16 MHz ARM® Cortex M3 processor 384 kB of embedded flash memory 32 kB system SRAM 16 kB Flash configured EEPROM Communication Input/output I2S and beeper interface LCD display controller (parallel and serial) LCD segment controller SPI, I²C, USB, and UART peripheral interfaces Programmable GPIOs Power Coin cell battery compatible 2.0 V to 3.6 V hibernate operation 2.5 V to 3.6 V active measurement range

Power management unit (PMU) Power-on reset (POR) and power supply monitor (PSM)

- · Packages and temperature range Operating temperature range: -40°C to +85°C Package: 120-lead, 8 mm × 8 mm CSP BGA
- · See datasheet for additional features

ADuCM350 Design Resources

Download the complete design file resource package.

- ADuCM350 Software Development Kit
- ADuCM350 Evaluation Kit Software Platform
- ADuCM350 Complete Documentation Pack

- Instrumentation SpO2
- NiBP based on BCG and PPG
- Medical Isolation and Patient Safety
- EEG Measurement
- ECG Patient Monitoring
- Wearable Health Monitoring
- Body Composition Measurement
- Portable Blood Analyzer
- Respiration Measurement
- Clinical Monitoring
- Health, Wellness and Fitness

Comparable Parts Click to see all in Parametric Search

Product Lifecycle Recommended for New Designs

This product has been released to the market. The data sheet contains all final specifications and operating conditions. For new designs, ADI recommends utilization of these products

Evaluation Kits (1)







View Detailed Evaluation Kit Information

The Eval-ADuCM350EBZ evaluation kit consists of the following:

Equipment Required

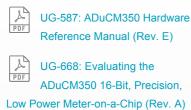
HARDWARE

1 Eval-ADuCM350EBZ board

1 USB-SW/UART-EMUZ also known as J-Link OB emulator

1 ADuCM350 4 Wire Bio Config 3 board

Resources



UG-677: ADuCM350 Software Development Kit Quick Start Guide

Documentation

View All (12)	Data Sheets (1)	Application	n Notes (8)	User Guides (3)
Data Shee	ets			
Meter On A Ch	6-Bit Precision, Lo hip with Cortex-M3 ata Sheet (Rev. B	and	PDF 959 kB	
Application	Notes			

View All (8) White Papers (1) Informational (1) Videos (4) Technical Articles (1) Analog Dialogue (1) White Papers Operating the AD8233 with the ADuCM350 Informational

User Guides

Design Resources

ADI has always placed the highest emphasis on delivering products that meet the maximum levels of quality and reliability. We achieve this by incorporating quality and reliability checks in every scope of product and process design, and in the manufacturing process as well. "Zero defects" for shipped products is always our goal.





Symbols and Footprints

PCN-PDN Information

Select Model

Discussions

ADUCM350 Discussions

ADUCM350 DESIGN SUPPORT COMMUNITY - INTRO

ADuCM350 FAQ ADuCM350 Evaluation Kit

ADuCM350 FAQ System Clocks

All ADUCM350 Discussions

EngineerZone[™] Didn't find what you were looking for? Ask the Analog community »

Sample & Buy

Model	Package	Pins	Temp Range	Packing Qty	Price (100- 499)	Price (1000+)	RoHS	Order from Analog Devices
ADUCM350BBCZ PCN Production	120 ball CSPBGA (8x8x1.23)	120	-40 to 85C	Tray, 348			Y ✔ Info	Purchase
ADUCM350BBCZ-RL PCN Production	120 ball CSPBGA (8x8x1.23)	120	-40 to 85C	Reel, 2000	-		Y ✔ Info	Purchase
Back				Select a co	ountry ~			Check Inventory

International prices may differ due to local duties, taxes, fees and exchange rates. For volume-specific price or delivery quotes, please contact your local Analog Devices, Inc. sales office or authorized distributor. Pricing displayed for Evaluation Boards and Kits is based on 1-piece pricing.

Price Table Help

Evaluation Boards

Pricing displayed is based on 1-piece.

Model	Description	RoHS	
EV-ADUCM350-4WBCZ Production	Additional 4Wire Bio Config daughterboard if required (1 supplied in Eval-ADuCM350 kit)		Yes
EV-ADUCM350AUDZ Production	Additional Daughterboard to verify Beeper and I2S functionality		Yes
EV-ADUCM350DISZ Production	Additional board with large Captouch pads and a PDI display connector		Yes
EV-ADUCM350GPIOTHZ Last Time Buy	Additional board with an LCD display to verify GPIO funtionality		Yes
EV-ADUCM350-SMCZ Production	Additional Switch Mux Config daughterboard if required (1 supplied in Eval- ADuCM350 kit)		Yes
EVAL-ADUCM350EBZ Production	Evaluation Kit for ADuM350		Yes
Back	Add to cart Select a country ~		Check Inventory

Pricing displayed is based on 1-piece. The USA list pricing shown is for budgetary use only, shown in United States dollars (FOB USA per unit), and is subject to change. International prices may vary due to local duties, taxes, fees and exchange rates.



Ahead of What's Possible

Analog Devices is a global leader in the design and manufacturing of analog, mixed signal, and DSP integrated circuits to help solve the toughest engineering challenges.

See the Innovations

Analog Devices. Dedicated to solving the toughest engineering challenges.

SOCIAL	QUICK LINKS	LANGUAGES	NEWSLETTERS
<table-cell> f 💟 in G 🖸</table-cell>	About ADIAlliancesAnalog DialogueCareersContact usInvestor RelationsNews RoomQuality & ReliabilitySales & Distribution	English 简体中文 日本語 Русский	Interested in the latest news and articles about ADI products, design tools, training and events? Choose from one of our 12 newsletters that match your product area of interest, delivered monthly or quarterly to your inbox.