Enter Your Keywords

CY8C21512-12PVXE

Status: In Production

Datasheet

English

File Type: PDF   Updated: Nov 20, 2015

Product Specs	Packaging/Ordering	Quality and RoHS	Technical Documents

CY8C21512-12PVXE

Development Kit	CY3213A-DK
Automotive Qualified	Y
Boost Converter (V)	0
CPU Core	M8C
CapSense	Y
Comm. Interface	I2C, SPI, UART
Dedicated ADC (No._ Max. Resolution @ Sample Rate)	DelSig (1, 10-bit @ 5.9 ksps)
Dedicated DAC (No._ Max. Resolution @ Sample Rate)	None
Flash (KB)	8
LCD Direct Drive	N
Max. Operating Frequency (MHz)	12
Max. Operating Temp. (°C)	125
Max. Operating Voltage (V)	5.25
Min. Operating Temp. (°C)	-40
Min. Operating Voltage (V)	3.00
No. of CapSense Channels	1
No. of CapSense IO	20
No. of Dedicated Comparators	0
No. of Dedicated I2C	1
No. of Dedicated OpAmps	0
No. of Dedicated SPI	0
No. of Dedicated UART	0
No. of GPIOs	24
No. of Programmable Analog Blocks	0
No. of Programmable Digital Blocks	1
PWMs	HW
Proximity Sensing	Y
SRAM (KB)	0.5
Sliders	4
SmartSense Enabled	N
Tape & Reel	N
USB (Type)	None

DESIGN SUPPORT

Development Kits

Forums

Knowledge Base

Packaging

Product Brochures

Quality & Reliability

Samples

Technical Support

Technical Training

Third Party Network (CYPros)

TRAINING

Workshops

Training On-Demand

Webinars

Availability	Quantity	Ships In	Buy from Cypress	Buy from Distributors
In Stock	2 074	24-48 hours	Contact Sales	Buy

* Prices are shown in United States dollars and are for budgetary use only for volume of 1ku

PACKAGING/ORDERING

Package	SSOP
No. of Pins	28
Package Dimensions	408 L x 0 H x 210 W (Mils)
Package Weight	229.90 (mgs)
Package Cross Section Drawing	Download
Package Carrier	TUBE
Package Carrier Drawing / Orientation	Drawing , Package Orientation
Standard Pack Quantity	235
Minimum Order Quantity (MOQ)	235
Order Increment	235
Estimated Lead Time (days)	91
HTS Code	8542.31.0001
ECCN	None
ECCN Suball	EAR99

QUALITY AND ROHS

Moisture Sensitivity Level (MSL)	3
Peak Reflow Temp. (°C)	260 (Cypress Reflow Profile)
RoHS Compliant	Y Print RoHS Certificate of Compliance
PB Free	Y
Lead/Ball Finish	Ni/Pd/Au
Marking	Cypress Marking Format

Package Material Declaration

28L - SSOP Pb-Free Package Material Declaration Datasheet *Last Update: Jul 10, 2018*

IPC 1752 Material Declaration

IPC1752 MATERIAL DECLARATION SSOP 28 (SP28) - AMKOR NIPDAU - AU WIRE *Last Update: Oct 13, 2016*
IPC1752 MATERIAL DECLARATION SSOP 28 (SP28) - AMKOR PURE SN - AU WIRE *Last Update: Oct 13, 2016*
IPC1752 MATERIAL DECLARATION SSOP 28 (SP28) - CML NIPDAU - AU WIRE *Last Update: Oct 13, 2016*
IPC1752 MATERIAL DECLARATION SSOP 28 (SP28) - OSET PURE SN - AU WIRE *Last Update: Oct 13, 2016*

Device Qualification Reports

FIT/MTBF, ESD (HBM/CDM) and Latch-up data available in the Device Qualification Report.

QTP#164011: Automotive CY8C21x34 PSoC1 Device Family S4AD-5 Technology, HHGrace Fab3.pdf *Last Update: Jul 18, 2018*
QTP 102802: PSOC DEVICE FAMILY (CY8C21X12) AUTOMOTIVE TECHNOLOGY S4AD-5, FAB4 QUALIFICATION REPORT *Last Update: Sep 20, 2016*

TECHNICAL DOCUMENTS

Application Notes (27)

AN52491 - Implementing Ambient Light Sensing Using PSoC® 1 Mar 19, 2018
AN60486 - PSoC® 1 M8C ImageCraft C Code Optimization Mar 06, 2018
AN73212 - Debugging with PSoC® 1 Mar 05, 2018
AN75320 - Getting Started with PSoC® 1 Mar 02, 2018
Show More ▾

Product Change Notice (PCN) (5)

PCN183601 Sep 10, 2018
PCN171504B Nov 30, 2017
APCN155371 Nov 09, 2017
Planned Qualification of Spansion Manufacturing Sites for Cypress Products
PCN171504 Oct 11, 2017
Show More ▾

Product Information Notice (PIN) (1)

PIN145277 Nov 06, 2017
Changes to Cypress Address Labels

SOLUTIONS

Automotive

Industrial

Consumer

PRODUCTS

Wireless

Microcontrollers (MCUs)

Memory

Universal Serial Bus (USB)

Power Management

Touch Sensing

Clocks & Buffers

DESIGN SUPPORT

Community

Videos

Quality & Reliability

Product Roadmaps

CORPORATE HEADQUARTERS

Cypress Semiconductor Corp.
198 Champion Court
San Jose, CA 95134 USA
Tel: +1-408-943-2600

CUSTOMER SERVICE SUPPORT

+1-800-541-4736
Hours:
8:00AM - 5:00PM (local time)
Create a MyCase
Cypress Developer Community

INTERNATIONAL SUPPORT

+1-408-943-2600
United States +1-800-541-4736
Hours:
4:30AM - 1:30PM (pacific time)
7:30PM - 4:30AM (standard time)

OTHER REQUESTS

Contact Us

Report a Website Problem

ABOUT US   **CAREERS**   **INVESTORS**

© Cypress Semiconductor Corporation. All rights reserved.