厂家

- 厂家
- 芯片

厂家

公司名称

PixArt Imaging Inc.

Logo

简介

Headquartered in Hsinchu Taiwan, is established in July 1998. We specialize in CMOS imaging sensing technology and navigation related integrated chip designs, and offer a broad selection of sensor products and services to support today's complex human-machine interface designs. Today, our offices scattered across Silicon Valley, Malaysia, China, Japan, Korea and Denmark and is endeavored to provide efficient and targeted support for our worldwide customers.

PixArt is expertized in CMOS image sensors (CIS), capacitive touch controllers and related imaging applications. With our extensive experiences in mixed-signal image processing design and systems development, we are devoted in the development of novel technologies to bridge the human-machine interface barrier. In order to meet specific customer product requirements, we also provide customized ASICs design services in addition to sensor chip designs.

We are currently the world-leading supplier in optical mouse sensor chips for conventional PC and high-end gaming applications, and is an industry leader for Smart Sensor SoC solutions incorporating CMOS Imager, optics and proprietary algorithm engines. With the comprehensive competencies in CIS design and development, PixArt is working to continuously expanding our application portfolios including Optical Navigation, Object Motion Sensing, Touch, CMOS Image Sensor, Health Management and Custom ASICs.

PixArt's core technology utilizes CMOS image sensor as the vision for image analytics, and allow complex tasks to be performed on one single SoC. With our ability to provide end-to-end solutions, proprietary algorithms and decent IC packaging, PixArt is able to offer one-stop-shop services to fulfill a comprehensive list of project and application needs. As an insider with sharp insight on the market trend, we are dedicated to provide value-adding products with top quality, low power architectures, effective costs and minimized form factors to impress you and your customers. It is also one of our key capabilities to deliver competitive turnkey solutions through short design cycles, thanks to our strong and trustworthy relationships with the world's top companies in wafer fabrication, testing, packaging and optical lens manufacturing.

In recent years, PixArt has been actively driving the collaboration with various industry-leading companies worldwide to develop new applications for the human machine interaction (HMI). The encouraging response and recognition that we received were highly inspirational, and have motivated us to accelerate our design pace to offer better and more powerful sensor technologies.

Our Philosophies:

- Inspire innovation by providing challenging and proficient working environment to unleash one strengths.
- Understanding the affiliation of customers and partners to pursue best interests of both sides.
- Be respect on intellectual property rights, rewarding on invention in dynamically strategizing global patent.

- Sharing the success of operating results with shareholders and employees as well as contributing utmost to the community.

网址

https://www.pixart.com
国家

中国.台湾
品牌

原相

芯片
内核

ARM Cortex-M0
尺寸

6mm*6mm
UART

电流

Sleep Mode Current <8 μA
Deep Sleep Mode Current <3μA
兼容标准

简述

调试

DSP RAM

音频控制

晶振

no
电源失效

no
Wifi

-
AoA/AoD

频率

32 MHz
同步串行接口

传感器控制器

接收器灵敏度

-93 dBm
升级方式

Manual

封装型式

QFN
DSP技术

概要

PLL时钟

no
I2S

名称

PAR2801QN-GHVC
Flash (kB)

128
I2C

-
待机

输出功率

Max. TX Power: +4dBm
CPU时钟频率

针脚

48
DSP时钟速度

特性

802.15.4 (Zigbee, Thread)
可选晶振

no
PDM

LE Audio

类型

蓝牙低功耗
蓝牙版本

Bluetooth Low Energy 5.0
I2S

no
射频规范

CPU特性

针距

RC时钟

no
PWM

品牌

原相
SRAM (kB)

80
实时时钟

no
CPU构造

通道

外部时钟

no
协议

-
RADIO

SAADC

国家

EEPROM (kB)

24
加密加速计

可编程通道

看门狗计数器

no
TWI

no
蓝牙5性能

-
SPIM

NFC标签

SPI

公钥硬件加速器

固定通道

QDEC

-
蓝牙5.1支持

-

SPIS

CMP

概述

- Fully qualified Bluetooth Low Energy 5.0 peripheral device
- Cortex M0 32-bit MCU with max. 32MHz clock rate
- Highly integrated SOC with 128kB Flash memory and 80kB SRAM
- DC-to-DC converter with boost or buck mode
- Communication interfaces: I2C master, SPI master, UART
- Peripherals: PWM, SAR ADC, quadrature decoder
- Support SWD (Serial Wire Debug) mode

GPIO

30

加速器

通道组

PDM

-

安全

TWIM

特性

UART,
SPI Master,
I2C Master,
PWM,
AES,
RNG,
ADC,
Quad.
Decoder
CAN

真随机数发生机器

USB

no

TWIS

方框图

CAN FD

监控器

SPI

no
UARTE

RAM(KB)

应用说明

Wireless Mouse Transmitter; Wireless Keyboard Transmitter; Dongle (Receiver); Data Transmission/Transparent Transmission
人机界面

-
Quad SPI

-
NFCT

开发板

安全模块

调试界面

-
LDO

no
USBD

数据手册

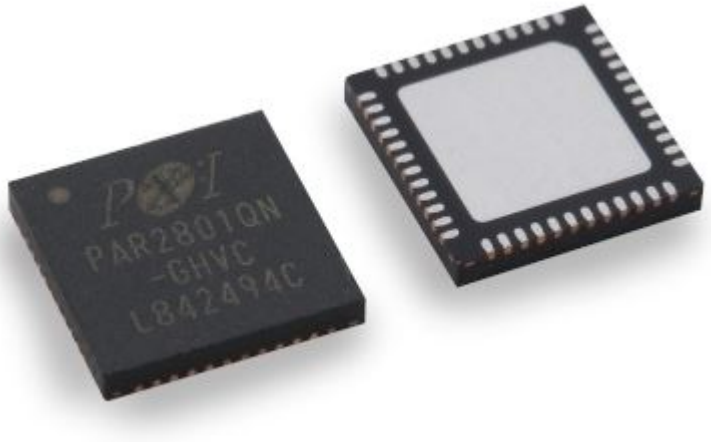
时钟 [数量, 位]

no
VBUS

no
QSPI

PWM [数量, 位]

图片



可调供电输出

-

ADC [数量, 位]

价格

0.00

DAC [数量, 位]

元

□

电压 [最小~最大] (V)

Buck: 1.9~3.6 / Boost: 0.9~1.65

评分

no □□6□

模拟组件

no

环境温度 (最小~最大) (°C)

-40~+85

低功耗组件

no

缓存

-

结温(最小~最大) (°C)

温度传感器

no