

I2C Interface 5.5V 28-Pin QFN-UT EP T/R

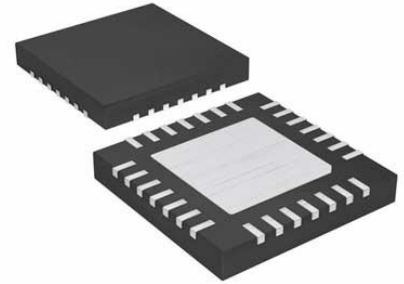
Manufacturer: [Semtech Corporation](#)

Package/Case: QFN28

Product Type: Drivers

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active



Images are for reference only

[Inquiry](#)

General Description

The SX1508B and SX1509B are complete ultra low voltage General Purpose parallel Input/Output (GPIO) expanders ideal for low power handheld battery powered equipment. This family of GPIOs comes in 4-, 8-, 16-channel configuration and allows easy serial expansion of I/O through a standard 400kHz I²C interface.

Key Features

1.2V to 5.5V (SX1507B) Low Operating
Voltage with Dual Independent I/O Rails (VCC1, VCC2)
Enable Direct Level Shifting Between I/O
Banks and Host Controller
5.5V Tolerant I/Os, Up to 15mA Output Sink on
All I/Os (No Total Sink Current Limit)
Integrated LED Driver for Enhanced Lighting
Intensity Control (256-step PWM)
Blink Control (224 On/Off values)
Breathing Control (224 Fade In/Out values)
On-Chip Keypad Scanning Engine
Support Up to 8x8 Matrix (64 Keys)
Configurable Input Debouncer
4/8/16 Channels of True Bi-directional Style I/O
Programmable Pull-up/Pull-down
Push/Pull or Open-drain outputs
Programmable Polarity
Open Drain Active Low Interrupt Output (NINT)
Bit Maskable
Programmable Edge Sensitivity
Built-in Clock Management (Internal 2MHz Oscillator/External Clock Input, 7 clock values)
OSCIO can be Configured as GPO
400kHz I2C Compatible Slave Interface
4 User-Selectable I
2
C Slave Addresses
Power-On Reset and Reset Input (NRESET)
Ultra Low Current Consumption: 1µA Typ
Up to 2kV HBM ESD Protection
Small Footprint Packages
Pb & Halogen Free, RoHS/WEEE compliant

Application

Cell phones, PDAs, MP3 players
Digital camera, Notebooks, GPS Units
Any battery powered equipment
Packaging
QFN-UT-20
QFN-UT-28
Order Codes
SX1508BIULTRT
SX1509BIULTRT
SX1509BEVK: Evaluation Kit

Recommended For You

SX1509QBIULTRT

Semtech Corporation

QFN-28

SX1502I087TRT

Semtech Corporation

QFN20

SX1508BIULTRT

Semtech Corporation

QFN

SX8723CWLIDT

Semtech Corporation

QFN

SX1503I091TRT

Semtech Corporation

QFN28

SX8724CWLIDT

Semtech Corporation

QFN

SX1504I087TRT

Semtech Corporation

20-QFN-UT(3x3)

SX8725E083TRT

Semtech Corporation

QFN

SX8725CWLIDT

Semtech Corporation

QFN

SX1512BIULTRT

Semtech Corporation

28-UFQFN

SX8724E082TRT

Semtech Corporation

QFN

GN4124-CBE3

Semtech Corporation

BGA-256