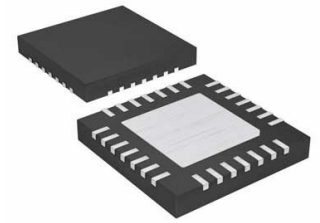



RF Transceiver FSK/GFSK/GMSK/MSK/OOK 3.3V Automotive 28-Pin QFN EP T/R



Images are for reference only

Manufacturer:	Semtech Corporation
Package/Case:	QFN28
Product Type:	Communication & Networking ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active

[Inquiry](#)

General Description

The SX1276/77/78/79 transceivers feature the LoRa® long range modem that provides ultra-long range spread spectrum communication and high interference immunity whilst minimizing current consumption.

Using Semtech's patented LoRa modulation technique SX1276/77/78/79 can achieve a sensitivity of over -148dBm using a low cost crystal and bill of materials. The high sensitivity combined with the integrated +20dBm power amplifier yields industry leading link budget making it optimal for any application requiring range or robustness. LoRa also provides significant advantages in both blocking and selectivity over conventional modulation techniques, solving the traditional design compromise between range, interference immunity and energy consumption.

Key Features

- 168dB maximum link budget
- Programmable bit rate up to 300kbps
- High sensitivity: down to -148dBm
- Bullet-proof front end: IIP3 = -11dBm
- Excellent blocking immunity
- Low RX current of 9.9mA, 200nA register retention
- Fully integrated synthesizer with a resolution of 61Hz
- FSK, GFSK, MSK, GMSK, LoRa and OOK modulation
- Built-in bit synchronizer for clock recovery
- Preamble detection
- 127dB Dynamic Range RSSI
- Automatic RF Sense and CAD with ultra-fast AFC
- Packet engine up to 256 bytes with CRC
- Built-in temperature sensor and low battery indicator

Application

- Automated Meter Reading
- Home and Building Automation
- Wireless Alarm and Security Systems
- Industrial Monitoring and Control
- Long range Irrigation Systems
- Packaging
- QFN 28
- Order Codes
- SX1276IMLTRT - Pb-free, Halogen free, RoHS/WEEE compliant product

Recommended For You

SX1250IMLTRT

Semtech Corporation

QFN24

SX1278IMLTRT

Semtech Corporation

QFN28

SX1280IMLTRT

Semtech Corporation

QFN24

SX1262IMLTRT

Semtech Corporation

QFN24

SX1232IMLTRT

Semtech Corporation

QFN24

SX1212IWLTRT

Semtech Corporation

QFN32

SX1261IMLTRT

Semtech Corporation

QFN24

SX1308IMLTRT

Semtech Corporation

QFN64

SX1243IULTRT

Semtech Corporation

DFN8

SX1272IMLTRT

Semtech Corporation

QFN

SX1303IMLTRT

Semtech Corporation

QFN-68

SX1239IMLTRT

Semtech Corporation

QFN24

SX1302IMLTRT

Semtech Corporation

QFN68

SX1257IWLTRT

Semtech Corporation

QFN32

SX1301IMLTRT

Semtech Corporation

QFN64