

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

<b>Manufacturer:</b>	<a href="#">Semtech Corporation</a>	SX1278IMLTRT Image
<b>Package/Case:</b>	QFN28	Images are for reference only
<b>Product Type:</b>	Communication & Networking ICs	<a href="#" style="background-color: #f4a460; color: white; text-decoration: none; padding: 10px 20px; border-radius: 5px;">Inquiry</a>
<b>RoHS:</b>	RoHS Compliant/Lead free 	
<b>Lifecycle:</b>	Active	

### 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.

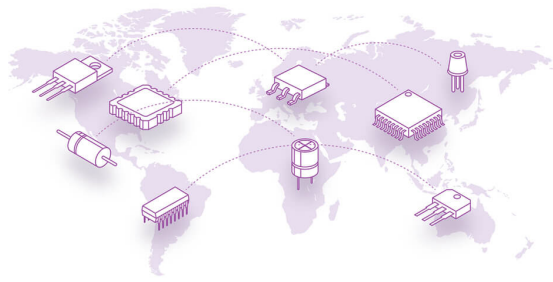
Using Semtech's patented LoRa modulation technique SX1276/77/78/79 can achieve a sensitivity of over -148dBm using a low cost crystal and bill of materials. The high sensitivity combined with the integrated +20dBm power amplifier yields industry leading link budget making it optimal for any application 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

- LoRaTM Modem 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
- SX1278IMLTRT - Pb-free, Halogen free, RoHS/WEEE compliant product



## Recommended For You

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### **SX1250IMLTRT**

Semtech Corporation

QFN24

### **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

### **SX1276IMLTRT**

Semtech Corporation

QFN28

### **SX1302IMLTRT**

Semtech Corporation

QFN68

### **SX1257IWLTRT**

Semtech Corporation

QFN32

### **SX1301IMLTRT**

Semtech Corporation

QFN64