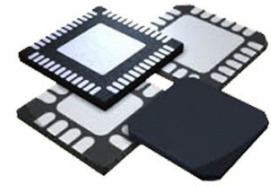



## RF Transmitter ASK/FSK/GFSK/GMSK/MSK/OOK 3V 20-Pin QFN EP T/R



Images are for reference only

<b>Manufacturer:</b>	<a href="#">STMicroelectronics, Inc</a>
<b>Package/Case:</b>	QFN-20
<b>Product Type:</b>	Communication & Networking ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active

[Inquiry](#)

### General Description

The STS1TX is a very low-power RF transmitter intended for RF wireless applications in the sub-1 GHz band. It is designed to operate both in the license-free ISM and SRD frequency bands at 169, 315, 433, 868, and 915 MHz, but can also be programmed to operate at other frequencies in the 300-348, 387-470, and 779-956 MHz bands. The air data rate is programmable from 1 to 500 kbps, and the STS1TX can be used in systems with channel spacing of 12.5/25 kHz, complying with the EN 300 220 standard. It uses very few discrete external components and integrates a configurable baseband modem, which supports data management and modulation. The data management handles the data in the proprietary fully-programmable packet format, and also allows the M-Bus standard compliance format (all performance classes).

An AES 128-bit encryption co-processor is available for secure data transfer. The STS1TX supports different modulation schemes: 2-FSK, GFSK, OOK, ASK, and MSK. Transmitted data bytes are buffered in FIFO (TX FIFO), accessible via the SPI interface for host processing.

### Key Features

Frequency bands: 150-174 MHz, 300-348 MHz, 387-470 MHz, 779-956 MHz

Modulation schemes: 2-FSK, GFSK, MSK, GMSK, OOK, and ASK

Air data rate from 1 to 500 kbps

Very low power consumption (21 mA TX at +11 dBm)

Programmable channel spacing (12.5 kHz min.)

Programmable output power up to +16 dBm

Fast startup and frequency synthesizer settling time (6  $\mu$ s)

Integrated temperature sensor

Battery indicator and low battery detector

TX FIFO buffer (96 bytes each)

Configurability via SPI interface

### Recommended For You

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**STA5620**

STMicroelectronics, Inc  
QFN

**ST25RU3993-BQFT**

STMicroelectronics, Inc  
QFN48

**ST25R95-VMD5T**

STMicroelectronics, Inc  
QFN32

**STA8090FG**

STMicroelectronics, Inc  
BGA

**STA8088GA**

STMicroelectronics, Inc  
QFN

**ST95HF-VMD5T**

STMicroelectronics, Inc  
QFN32

**ST25DV16K-JFR6D3**

STMicroelectronics, Inc  
12UFDFPN

**ST25R3920-AQWT**

STMicroelectronics, Inc  
VFQFPN32

**ST25DV04K-IER6C3**

STMicroelectronics, Inc  
DNF8

**STA8089GA**

STMicroelectronics, Inc  
QFN

**STA8088FG**

STMicroelectronics, Inc  
VFQFPN56

**ST25DV04K-IER6S3**

STMicroelectronics, Inc  
SOP8

**SMA661ASTR**

STMicroelectronics, Inc  
SOT666

**ST25R3916-AQWT**

STMicroelectronics, Inc  
QFN32

**STMB2WB55CGU7**

STMicroelectronics, Inc  
UFQFN48