

LT-901

LTE Modem Product Specification

Version	Issue date	Changes	Remark
0.1	2017/10/19	Initial Version	

IMPORTANT

This document contains important information and
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LT-901 LTE Modem

1 Introduction

LT-901 LTE Modem is a general purpose LTE modem supporting 4 different CAT and a wide range of bands.

LT-901 LTE Modem major applications :

- Remote Monitor System
- Vehicle System
- Wireless POS System
- Intelligent Meter
- Wireless Router and Switch
- Other Wireless Terminal Devices

2 Major Features

- Support USIM/SIM card : 1.8V, 3.0V
- USB 2.0 slave for data communication (uUSB connector)
- LED indicators :
 - ◆ Power on
 - ◆ Network activity
- 13 pins terminal block :
 - ◆ IO voltage level 5V/3.3V jumper selectable
 - ◆ UART1 (full UART with flow control signals)
 - ◆ For data communication
 - ◆ UART2
 - ◆ Reset
 - ◆ Power On
- Antenna
 - ◆ LTE antenna
 - ◆ Optional GPS antenna with active bias
- SIM socket : push-push type
- Power input : DC 5V (5.5/2.1 connector)

3 Specification

3.1 LT-901 LTE Modem Interface

There are two physical connections of LT-901 LTE Modem : USB and 13-pin pluggable terminal. It is easy to connect with application processor. We also support USB connection with various drives of O.S on PC.

Table 1: Definition of I/O Parameters

Type	Description↵
IO	Bidirectional↵
DI	Digital input↵
DO	Digital output↵
OC	Open collector↵
PI	Power input↵
PO	Power output↵

Table 2: Description of 13 Pins terminal block

Pin No.	LT901-Q PIN Name	LT901-E PIN Name	LT901-H PIN Name	I/O	Description
1	PWRKEY	PWRKEY	-	DI	Turn on/off the module.
2	RESET	RESET	RESET	DI	Reset signal of the module, high active.
3	RI	RI	RI	DO	Ring indicator.
4	DCD	DCD	-	DO	Data carrier detection.
5	RTS	RTS	-	DI	Request to send.
6	CTS	CTS	-	DO	Clear to send.
7	TX	TX	TX	DO	Transmit data.
8	RX	RX	RX	DI	Received data.
9	DTR	DTR	-	DI	Data terminal ready.
10	TX3	DBG_TX	DBG_TX	DO	Transmit data of uart3/debug port.
11	RX3	DBG_RX	DBG_RX	DI	Received data of uart3/debug port.
12	5V	5V	5V	PI	+5V input.
13	GND	GND	GND	PI	Ground

3.2 Model number, supported Cat. and band

Table 3: Model number, supported Cat. and band

Model Number	LTE Cat	Band	Max. Bandwidth
LT901-DF84	Cat4	B1/B3/B7/B8/B20	150M DL / 50M UL
LT901-DF80	Cat1	B1/B3/B7/B8/B20	10M DL / 5M UL
LT901-AF85	Cat M1 / NB1 (NB-IoT)	Global	375K DL / 375K UL
LT901-AB84	Cat NB1 (NB-IoT)	B5/B8/B20/B28	100K DL / 100K UL

4 Product Pictures



Front View



Back View



Bottom View