

Overview

LTE Cat 1 series of products with LTE network and GPRS network, have high coverage and low latency, cover major European carrier frequency bands. These modems feature with TCP/UDP transparent transmission, HTTP protocol and MQTT protocol transmission, short message transmission and the AT command mode. With rich functions and simple configuration, LTE CAT 1 cellular modems can meet most scenarios by RS232 / RS485 / TTL data transmission.



Ordering Part Numbers

Models		USR-DR502-E	USR-G771-E	WH-LTE-7S1-E
LTE Category		LTE Cat.1	LTE Cat.1	LTE Cat.1
Frequency Bands	LTE FDD	B1/B3/B7/B8/B20/B28	B1/B3/B7/B8/B20/B28	B1/B3/B7/B8/B20/B28
	GSM/GPRS/EDGE	900/1800MHz	900/1800MHz	900/1800MHz
Transmission Speed	LTE FDD Rel.13	10MbpsDL/5Mbps UL	10MbpsDL/5Mbps UL	10MbpsDL/5Mbps UL
	GPRS	85.6KbpsDL/85.6Kbps UL	85.6KbpsDL/85.6Kbps UL	85.6KbpsDL/85.6Kbps UL
TX Power	FDD:B1/3/7/8/20/28	23dBm±2dB	23dBm±2dB	23dBm±2dB
	GSM:900MHz	33dBm±2dB	33dBm±2dB	33dBm±2dB
	GSM:1800MHz	30dBm±2dB	30dBm±2dB	30dBm±2dB
Rx Sensitivity	GSM:900MHz	-109.5dBm	-109.5dBm	-109.5dBm
	GSM:1800MHz	-108dBm	-108dBm	-108dBm
	FDD:B1/3/20	-98dBm	-98dBm	-98dBm
	FDD:B7	-97.5dBm	-97.5dBm	-97.5dBm
	FDD:B8/B28	-98.5dBm	-98.5dBm	-98.5dBm

Serial Parameters	NO.	RS485(Terminal)*1	RS485(Terminal)*1 RS232(DB9)*1	TTL(3.0V)*1
	Data Bits	8	8	8
	Stop Bits	1,2	1,2	1,2
	Parity Bits	NONE,ODD,EVEN	NONE,ODD,EVEN	NONE,ODD,EVEN
	Baud Rate	1200~230400	1200~230400	1200~460800
Physical Interfaces	SIM/USIM card	1.8V/3V(with slot)	1.8V/3V(with slot)	1.8V/3V(with slot)
	Antenna	SMA Female	SMA Female	IPEX socket
	USB	USB 2.0	USB 2.0	USB 2.0
	Indicators	POWER,WORK,NET,LINK, RSSI	POWER,WORK,NET,LINK	POWER,WORK,NET
	Reload	Button	Button	Pin,built-in Pull-up Res
	Reset	/	/	Pin,built-in Pull-up Res
	Hardware Characteristics	Input Voltage	9V~36V	9V~36V
Connector		Terminal	DC 5.0 Jack/Terminal	DIP
Housing material		ABS Plastic	Metal	/
Dimensions(mm)		44.5×31.8×13.94 (L*W*H)	82.6×86×25 (L*W*H)	44.4×41.8×12.5 (L*W*H)
Operating temperature		-30℃~+75℃	-30℃~+75℃	-30℃~+75℃
Storage Temperature		-40℃~85℃	-40℃~85℃	-40℃~85℃
Operating humidity		5%~95%	5%~95%	5%~95%
Storage humidity		5%~95%	5%~95%	5%~95%
Software	Protocol	TCP/UDP/IPV4/IPV6/ /DNS/HTTP/MQTT	TCP/UDP/IPV4/IPV6/ /DNS/HTTP/MQTT	TCP/UDP/IPV4/IPV6/ /DNS/HTTP/MQTT
	RNDIS	Default Close	Default Close	Default Close
	Serial to network	4 sockets, default A	4 sockets, default A	4 sockets, default A
	SMS	PDU/TEXT	PDU/TEXT	PDU/TEXT
	Command mode	6 Sockets	6 Sockets	6 Sockets
	Configuration	Serial,Net,SMS AT commands	Serial,Net,SMS AT commands	Serial,Net,SMS AT commands
	Cache	20 packets	20 packets	20 packets
Packaging mechanism	Packaging time(ms)	10~500,default 50	10~500,default 50	10~500,default 50
	Packaging length(byte)	5~65535,defalut1024	5~65535,defalut1024	5~65535,defalut1024
Others	Tool	USR-Cat1Configuration Utility	USR-Cat1Configuration Utility	USR-Cat1Configuration Utility
	Certifications	CE,ROSH	CE,ROSH	CE,ROSH