

Overview

LTE Cat 4 modem adopts 3GPP Rel 11 LTE technology, which supports a maximum downlink rate of 150Mbps and a maximum uplink rate of 50Mbps. At the same time, 4G cellular modem supports 2G and 3G. The -G series of 4G modem supports the global mainstream operators and the -EUX series supports the European mainstream operators. 4G cellular modem supports TCP/UDP transparent transmission, supports HTTP protocol transmission, supports Modbus TCP and RTU mutual conversion, supports SMS transparent transmission. The product software has comprehensive functions and simple configuration, which can meet most data transmission scenarios through RS232/RS485. At the same time, 4G modem supports application customization and can realize MQTT and other functions.

Ordering Part Numbers

Models		USR-DR504-G	USR-G786-G	USR-DR504-EUX	USR-G786-EUX
LTE Category		LTE Cat.4	LTE Cat.4	LTE Cat.4	LTE Cat.4
Frequency Bands	LTE FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28	B1/B3/B7/B8/B20/B28A	B1/B3/B7/B8/B20/B28A
	LTE TDD	B38/B39/B40/B41	B38/B39/B40/B41	B38/B40/B41	B38/B40/B41
	WCDMA	B1/B2/B4/B5/B6/B8/B19	B1/B2/B4/B5/B6/B8/B19	B1/B8	B1/B8
	GSM	B2/B3/B5/B8	B2/B3/B5/B8	B3/B8	B3/B8
Transmission Speed	LTE-FDD	150Mbps(DL)/50Mbps(UL)	150Mbps(DL)/50Mbps(UL)	150Mbps(DL)/50Mbps(UL)	150Mbps(DL)/50Mbps(UL)
	LTE-TDD	130Mbps(DL)/30Mbps(UL)	130Mbps(DL)/30Mbps(UL)	130Mbps(DL)/30Mbps(UL)	130Mbps(DL)/30Mbps(UL)
	DC-HSDPA	42Mbps (DL)	42Mbps (DL)	42Mbps (DL)	42Mbps (DL)
	HSUPA	5.76Mbps (UL)	5.76Mbps (UL)	5.76Mbps (UL)	5.76Mbps (UL)
	WCDMA	384Kbps(DL)/ 384Kbps(UL)	384Kbps(DL)/ 384Kbps(UL)	384Kbps(DL)/ 384Kbps(UL)	384Kbps(DL)/ 384Kbps(UL)
	GSM(EDGE)	296Kbps (DL)/ 236.8Kbps (UL)	296Kbps (DL)/ 236.8Kbps (UL)	296Kbps (DL)/ 236.8Kbps (UL)	296Kbps (DL)/ 236.8Kbps (UL)
	GSM (GPRS)	107Kbps (DL)/ 85.6Kbps (UL)	107Kbps (DL)/ 85.6Kbps (UL)	107Kbps (DL)/ 85.6Kbps (UL)	107Kbps (DL)/ 85.6Kbps (UL)
TX Power	LTE-FDD (Class 3)	23dBm±2dB	23dBm±2dB	23dBm±2dB	23dBm±2dB
	LTE-TDD (Class 3)	23dBm±2dB	23dBm±2dB	23dBm±2dB	23dBm±2dB
	WCDMA (Class 3)	24dBm+1/-3dB	24dBm+1/-3dB	24dBm+1/-3dB	24dBm+1/-3dB
	GSM850/900(Class 4)	33dBm±2dB	33dBm±2dB	33dBm±2dB	33dBm±2dB
	GSM:1800/1900 (Class 1)	30dBm±2dB	30dBm±2dB	30dBm±2dB	30dBm±2dB
	GSM850 8-PSK(Class E2)	27dBm±3dB	27dBm±3dB	27dBm±3dB	27dBm±3dB
	EGSM900 8-PSK(Class E2)	27dBm±3dB	27dBm±3dB	27dBm±3dB	27dBm±3dB
	DCS1800 8-PSK(Class E2)	26dBm±3dB	26dBm±3dB	26dBm±3dB	26dBm±3dB
	PCS1900 8-PSK(Class E2)	26dBm±3dB	26dBm±3dB	26dBm±3dB	26dBm±3dB
Rx Sensitivity	GSM:850/900 MHz	-108dBm	-108dBm	-109dBm	-109dBm
	GSM:1800/1900 MHz	-107.5dBm	-107.5dBm	-109dBm	-109dBm
	WCDMA:B1	-109.2dBm	-109.2dBm	-110dBm	-110dBm
	WCDMA:B2	-110dBm	-110dBm	-110dBm	-110dBm
	WCDMA:B4	-109.7dBm	-109.7dBm	-110dBm	-110dBm
	WCDMA:B5	-110.4dBm	-110.4dBm	-110.5dBm	-110.5dBm
	WCDMA:B6/B8	-110.5dBm	-110.5dBm	-110.5dBm	-110.5dBm

	WCDMA:B19	-110.1dBm	-110.1dBm	-110.5dBm	-110.5dBm
	LTE:B1	-99.5dBm (10MHz)	-99.5dBm (10MHz)	-101.5dBm (10M)	-101.5dBm (10M)
	LTE:B2	-99.9dBm (10MHz)	-99.9dBm (10MHz)	-	-
	LTE:B3	-99.7dBm (10MHz)	-99.7dBm (10MHz)	-101.5dBm (10M)	-101.5dBm (10M)
	LTE:B4	-99.7dBm (10MHz)	-99.7dBm (10MHz)	-	-
	LTE:B5	-99.9dBm (10MHz)	-99.9dBm (10MHz)	-	-
	LTE:B7	-99.2dBm (10MHz)	-99.2dBm (10MHz)	-99.5dBm (10M)	-99.5dBm (10M)
	LTE:B8	99.8dBm (10MHz)	99.8dBm (10MHz)	-101dBm (10M)	-101dBm (10M)
	LTE:B12	99.8dBm (10MHz)	99.8dBm (10MHz)	-	-
	LTE:B13	-99.5dBm (10MHz)	-99.5dBm (10MHz)	-	-
	LTE:B18	-100dBm (10MHz)	-100dBm (10MHz)	-	-
	LTE: B19	-99.9dBm (10MHz)	-99.9dBm (10MHz)	-	-
	LTE: B20	99.8dBm (10MHz)	99.8dBm (10MHz)	-102.5dB (10M)	-102.5dB (10M)
	LTE: B25	-100dBm (10MHz)	-100dBm (10MHz)	-	-
	LTE: B26	-99.5dBm (10MHz)	-99.5dBm (10MHz)	-	-
	LTE:B28	-99.6dBm (10MHz)	-99.6dBm (10MHz)	-102dBm (10M)	-102dBm (10M)
	LTE:B38	-99dBm (10MHz)	-99dBm (10MHz)	-100dBm (10M)	-100dBm (10M)
	LTE: B39	-99.5dBm (10MHz)	-99.5dBm (10MHz)	-	-
	LTE: B40	-99.2dBm (10MHz)	-99.2dBm (10MHz)	-100dBm (10M)	-100dBm (10M)
	LTE:B41	-99dBm (10MHz)	-99dBm (10MHz)	-99dBm (10M)	-99dBm (10M)
Serial Parameters	接口形式	RS485(Terminal)*1	RS485(Terminal)*1 RS232(Terminal)*1	RS485(Terminal)*1	RS485(Terminal)*1 RS232(Terminal)*1
	Data Bits	8	8	8	8
	Stop Bits	1,2	1,2	1,2	1,2
	Parity Bits	NONE,ODD,EVEN	NONE,ODD,EVEN	NONE,ODD,EVEN	NONE,ODD,EVEN
	Baud Rate	2400~230400	2400~230400	2400~230400	2400~230400
Physical Interfaces	SIM/USIM card	1.8V/3V(中卡)	1.8V/3V(大卡)	1.8V/3V(中卡)	1.8V/3V(大卡)
	Antenna	SMA Female	SMA Female	SMA Female	SMA Female
	USB	USB 2.0	-	USB 2.0	-
	Indicators	POWER,WORK,NET,LINK,RSSI	POWER,WORK,NET,LINK	POWER,WORK,NET,LINK,RSSI	POWER,WORK,NET,LINK
	Reload	Button	Button	Button	Button
	Reset	/	/	/	/
Hardware Characteristics	Input Voltage	9V~36V	9V~36V	9V~36V	9V~36V
	Connector	Terminal	Terminal	Terminal	Terminal
	Housing material	ABS Plastic	Metal	ABS Plastic	Metal
	Dimensions(mm)	44.5×31.8×13.94 (L*W*H)	111.51×94×28 (L*W*H)	44.5×31.8×13.94 (L*W*H)	111.51×94×28 (L*W*H)
	Operating temperature	-30℃~+75℃	-35℃~+75℃	-30℃~+75℃	-35℃~+75℃
	Storage Temperature	-40℃~+85℃	-40℃~+90℃	-40℃~+85℃	-40℃~+90℃
	Operating humidity	5%~95%	5%~95%	5%~95%	5%~95%
	Storage humidity	5%~95%	5%~95%	5%~95%	5%~95%
Software	Protocol	TCP/UDP/DNS/HTTP/FTP	TCP/UDP/DNS/HTTP/FTP	TCP/UDP/DNS/HTTP/FTP	TCP/UDP/DNS/HTTP/FTP
	Serial to network	2 sockets, default A	2 sockets, default A	2 sockets, default A	2 sockets, default A
	SMS	PDU/TEXT	PDU/TEXT	PDU/TEXT	PDU/TEXT

	Configuration	Serial,Net,SMS AT commands	Serial,Net,SMS AT commands	Serial,Net,SMS AT commands	Serial,Net,SMS AT commands
	Cache	5 packets	5 packets	5 packets	5 packets
Packaging mechanism	Packaging time(ms)	100~60000,default 100	100~60000,default 100	100~60000,default 100	100~60000,default 100
	Packaging length(byte)	100~1000,default 1000	100~1000,default 1000	100~1000,default 1000	100~1000,default 1000
Others	Tool	USR-Cat 4 Configuration Utility	USR-Cat 4 Configuration Utility	USR-Cat 4 Configuration Utility	USR-Cat 4 Configuration Utility
	Certifications	CE,ROSH	CE,ROSH	CE,ROSH	CE,ROSH