Freestrong

FS-LCore-F800E Series_Specifications

LCore series 4G Cat.1 communication core board

product description

The FS-LCore-F800E series is an ultra-small package, feature-rich,The core board designed by 4G Cat.1 communication module FS800E takes "data transmission" as the core and is highly easy to use. It adopts 8PIN pin-type package, and users can easily and quickly integrate it into their own systems. The core board has complete functions and covers most application scenarios.

Built-in EZDTU transparent transmission firmware, bid farewell to complicated AT command operations, only one simple configuration is required to realize two-way data transparent transmission between the serial port and the remote server, support host computer software configuration, serial port command configuration, and platform remote configuration; supportTCP, UDP, MQTT, HTTP and other communication protocols commonly used in the Internet of Things; there is an internal exception handling mechanism, which can automatically reconnect when disconnected; at the same time, it also has advanced functions such as heartbeat package, registration package, Keepalive, FOTA upgrade, etc., which greatly improves the user experience. development efficiency and product stability.

product specification

product name		4G DTU core board
Product number		FS-LCore-F800E
support operators		Mobile 4G, China Unicom 4G, Telecom 4G
hardware interface	Package form	pin type8 pins
	power supply	5V~16V
	led lights	Power indicator light, network indicator light
	SIM interface	Self-bouncing Nano deck
	antenna	IPEX seat (1st generation)
	UART	TTL(Default 3.3V, can support 5V)
		Baud rate (bps): 300, 1200, 2400, 4800, 9600, 115200, 230400, 460800, 921600

Dimensions	size(length*width*height)	22.00*24.00*12.54mm (including pin height)	
	weight	about3g	
temperature range	Operating temperature	-35°C ~ +70°C	
	storage temperature	-40°C ~ +85°C	
specifications	LTE-TDD	Proportion 1: Maximum6Mbps(DL)/Maximum 4Mbps(UL) Proportion 2: Maximum8Mbps(DL)/Maximum 2Mbps(UL)	
	LTE-FDD	Maximum 10Mbps (DL)/maximum 5Mbps (UL)	
Support frequency band	LTE-TDD	B34/B38/B39/B40/B41	

	LTE-FDD	B1/B3/B5/B8
Output Power	LTE-TDD	23dBm+1/-3dB
	LTE-FDD	23dBm±2dB
software function	Network protocol	TCP/UDP/HTTP/MQTT
	operating system	ｓｕｐｐｏｒｔWindows/Linux/Android

pin definition

pin number	name	illustrate
1	VB	When VIN is input, VB outputs 3.8V, which can be suspended; when VB is input, it is directly connected to the module power supply, and the input voltage 3.3~4.3V
2	VIN	Power input positive, support5~16V input.
3	GND	Power input negative.
4	TX	Master serial port transmit pin, pulled up to3.3V.
5	RX	Master serial port receive pin, pulled up to3.3V.
6	EN	The default is EN(core board power enable pin), internally pulled up to Vin. ENPower off when low(external triode drivemodule_ENWhen the power is high, the power is turned off), and if not used, leave it open.
7	RDY	Socket1 connection status indicator, high level means not connected to the server, low level means connected to the server
8	D/P	Module on and off(The default is to power on automatically), and it can be suspended when not in use

Note: VB and VIN cannot be used at the same time. When VB is used to supply power to the core board, the EN pin will be invalid.