


LTE CPE Serial SPEC							
Item	Sub Item	ID Drawing	SPEC				Note
ID name			LCD/LED	Power supply	Size	Weight	Painting&silk print
FP220K			LED	12V/1A	185*175*78(max thickness)	350g	Standard
WAN							
IC Capability	Chipset	ZX237520V3					
	LTE Channel Bandwidth	FDD:1/2/3/5/7/8/20/28; TDD:38/39/40/41 MHz; W:850/900/1800/1900/2100; GSM:850/900/1800/1900					
	Modulation	Downlink QPSK/16-QAM/64-QAM Uplink QPSK/16-QAM					
	LTE Authentication	EPS-AKA					
	Adaptive Modulation and Coding	Supported					
	MIMO support	Support MIMO 2x2					
	Idle Mode	Supported					
	Sleep Mode	Supported					
Certification	3GPP Conformance Compliance(TBD)	<input checked="" type="checkbox"/> 3GPP TS 34.108	<input checked="" type="checkbox"/> 3GPP TS 34.114	<input checked="" type="checkbox"/> 3GPP TS 34.121(1,2,3)			
		<input checked="" type="checkbox"/> 3GPP TS 34.122	<input checked="" type="checkbox"/> 3GPP TS 34.123 (1,2,3)	<input checked="" type="checkbox"/> 3GPP TS 34.171			
		<input type="checkbox"/> 3GPP TS 34.172	<input checked="" type="checkbox"/> 3GPP TS 34.229 (1,2,3,4)	<input checked="" type="checkbox"/> 3GPP TS 34.902			
		<input checked="" type="checkbox"/> 3GPP TS 36.508	<input checked="" type="checkbox"/> 3GPP TS 36.509	<input checked="" type="checkbox"/> 3GPP TS 36.521 (1,2,3)			
		<input checked="" type="checkbox"/> 3GPP TS 36.523 (1,2,3)	<input type="checkbox"/> 3GPP TS 36.903	<input type="checkbox"/> 3GPP TS 36.904			
		<input type="checkbox"/> 3GPP TS 36.978	<input type="checkbox"/> 3GPP TS 37.544	<input type="checkbox"/> 3GPP TS 37.571 (1,2,3,4,5)			
		<input checked="" type="checkbox"/> 3GPP TS 37.901					
Power Level	TDD-LTE	Power Class 3 (23 +/-3dBm)					
	FDD LTE	Power Class 3 (23 +/-3dBm)					
	TD-SCDMA	/					
	UMTS	Power Class 3 (23 +/-2dBm)					
	EDGE	/					
Sensitivity	TDD LTE	-94 dBm(20MHZ)					
	FDD LTE	-93 dBm(20MHZ)					
	TD-SCDMA	/					
	UMTS	-106 dBm					
	EDGE	/					
Data Rate	TDD-LTE	3GPP R9 ,Category 4, DL 150Mbps UL 50Mbps					
	FDD-LTE	3GPP R9 ,Category 4, DL 150Mbps UL 50Mbps					
	TD-SCDMA	/					
	UMTS	3GPP R7 DL 21.6Mbps UL 5.76Mbps					
	EDGE/GPRS	/					
LAN							
WiFi Chipset	RTL8192ES	Certificated by All Operators					
WiFi info	WLAN Mode	<input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n <input type="checkbox"/> 802.11ac					
	Frequency Band	<input checked="" type="checkbox"/> 2.4 GHz <input type="checkbox"/> 5 GHz					
	WiFi MIMO	2x2					
	802.11b/g/n Channel	1~13					
	802.11ac 20MHz Channel	/					
	802.11ac 40MHz Channel	/					
	802.11ac 80MHz Channel	/					
	Antenna Type	<input checked="" type="checkbox"/> Internal <input checked="" type="checkbox"/> External					
Supported Security	<input checked="" type="checkbox"/> None <input checked="" type="checkbox"/> WEP64 <input checked="" type="checkbox"/> WEP128 <input checked="" type="checkbox"/> WPA-PSK <input checked="" type="checkbox"/> WPA2-PSK						
Power Level	WiFi IEEE 802.11b	18dBm					
	WiFi IEEE 802.11g	15dBm					
	WiFi IEEE 802.11n	14dBm					
	WiFi IEEE 802.11ac	/					
Sensitivity	WiFi IEEE 802.11b(11M)	≤ -90dBm					
	WiFi IEEE 802.11g(54M)	≤ -70dBm					
	WiFi IEEE 802.11n(300M)	≤ -69dBm					
	WiFi IEEE 802.11ac	/					
Data Rate	WiFi IEEE 802.11b	1/2/5.5/11 Mbps					
	WiFi IEEE 802.11g	54/48/36/24/18/12/9/6 Mbps					
	WiFi IEEE 802.11n(20M)	7.2/14.4/21.7/28.9/43.3/57.8/65/72.2/14.4/28.9/43.3/57.8/86.7/115.6/130/144.4 Mbps					
	WiFi IEEE 802.11n(40M)	15/30/45/60/90/120/135/150/30/60/90/120/180/240/270/300 Mbps					
	WiFi IEEE 802.11ac	/					
System							
2G/3G/4G setup	Network Selection	Manual, Auto Setup by user					Supported
	Interoperability	TDD-LTE & UMTS, FDD-LTE & UMTS					Not Supported
	SMS	SMS over SGs Func at LTE SMS's receiving and reading					Supported
	APN setup	APN setup and revise					Supported
	PIN Func	PIN:Save, revise, lock,unlock					Supported
	DM	DM					Supported
	Modem Func	Connect to PC by USB					Supported
	Automatically connect reconstructed	Can automatically reconnect to network after off-network in data using					Supported
WiFi Router setup	Max users	32(2.4G)					Supported
	Web Server	WEB UI					Supported
	DHCP	DHCP client / server, you can set whether to activate the DHCP service assigns IP addresses starting and ending addresses, set the gateway address; Support client list: Displays all the DHCP server to obtain IP address of the host, including MAC address, IP address obtained					Supported
	Password setting	Support the administrator account and password factory setting					Supported

	SSID/Channel setting	Support SSID and channel settings: Set SSID, communication channel (frequency band WiFi settings, select the range of WiFi support of the band all the available channels), WIFI function on/off, and the SSID broadcast on/off	Supported
	WIFI Encryption	Provides WEP, WPA-PSK, WPA2-PSK, WAPI encryption methods, etc.	Supported
	Mac/IP filtering	Support MAC and IP filtering	Supported
	WPS	WPS Key(Outside)	Supported
Application	RAS	Not Supported	
	RNDIS	Supported	
	Voice	Support	
	Video call	Not support	
	SMS	Supported	
	MMS	Not support	
	STK	Not Supported	
	USSD	Supported	
	Phonebook	Supported	
	Network lock	Software locking (can customization hardware locking)	
	Sim reader	Supported	
	DLNA	Not Supported	
	Language	English	
	Firewall switch	Supported	
Online update	Supported; TR069 ,or Http upgrade		
APP	Not Supported		
Other setup	Driver setup	With the PC operating system automatically recognizes, supports drivers installed automatically	Partly Supported
	Administrator password configuration	Terminal preset default administrator password, supports password changes	Supported
	SW update	Support local upgrade the firmware of the terminal	Supported
	Time setup	Set user location's time	Supported
	Recovery	Support the terminal restore all settings to the factory default state	Supported
	Reboot	Reboot by SW	Supported
	Online help	This menu item provides the user with the help of the course, descriptive information	Supported
System Log	Display system during operation log information generated. Easy for users to understand the equipment through query log system events that have occurred on. Allows the user to clear the log operation	Supported	
Power features	working Voltage	12V	
	Max Voltage Input	22V	
	Battery	Support	
	working Current	150mA	
	Max working current	650mA	
Environmental Characteristics	Operating Temperature	0℃ ~+40℃	
	Extreme working temperature	-10℃ ~+50℃	
	Storage Temperature	-20℃ ~+45℃	
	Operating humidity	10%~90%RH	
Port	LTE SIM	standard SIM ;Single,Not hot plug: 3GPP 31.101 and 31.102 standard	
	T-Flash Card	Not support	
	Key	Key3: 1、Reset 2、WPS 3、WLAN;	
	LCD	Not supported	
	LED	Signal strength : 5 blue LEDs Power:Blue PSU: Blue BAT:Blue+Yellow 4G/LTE :Blue+Yellow WPS:Blue TEL:Blue	
	USB	USB 2.0 (Micro) : Only support the module download	
	Voice(VoLTE/CSFB)	Support	
	LAN	RJ45*4*100M	
	Reception range	indoor: 30m; outdoor: 100m	
	Approvals & Certification	CE	Can Support if need
GCF		Can Support if need	
FCC		Can Support if need	
PTCRB		Can Support if need	
ROHS		supported	
WHQL		Can Support if need	
DLNA		Can Support if need	
Safety	Thermal protection	Support	
	Plastic Cover	Support	
	CE Certificate Part Safty	Can Support if need	
PC OS	Win7/WinXP	Supported	
	MAC OS	Supported	
	Windows8	Supported	
	Android	Supported	
	LINUX	Supported	