

CR450BX

SPECIFICATIONS

CELLULAR INTERFACE

Number of antennas	2 (MAIN + AUX) or 1 (MAIN)
Connector	SMA-K
SIM	2 x Mini SIM (2FF)

ETHERNET INTERFACE

Number of ports	2 x 10/100 Mbps, 2 x LAN or 1 x LAN + 1 x WAN
WAN port	Supports 802.3at PD feature (optional)
Magnet isolation protection	1.5 KV

WI-FI INTERFACE

Number of antennas	2 (Wi-Fi1 + Wi-Fi2)
Connector	RP-SMA-K
Standards	802.11 b/g/n, supporting AP and Client modes
Frequency bands	2.4 GHz
Security	WEP, WPA, WPA2
Encryption	64/128 AES, TKIP
Data speed	2 x 2 MIMO, 300Mbps

POWER SUPPLY AND CONSUMPTION

Connector	2-pin 3.5 mm female socket
Input voltage	9 ~ 36 V DC
Power consumption	Idle: 200 mA@12 V Data link: 580mA (peak)@12 V

APP CENTER

Coming soon

OTHERS

Reset button	1 x RST
LED indicators	1 x RUN, 1 x MDM, 1 x WIFI, 3 x RSSI
Built-in	Watchdog, Timer

CELLULAR BANDS

Public	B3, B7, B20
450MHZ LTE	B31, B72

DI/DO

Type	1 x DI, 1 x DO
Connector	1 x 4-pin 3.5 mm female socket
Signal definition	DI+, DI-, DO+, DO
Level	3.5 to 30V DC = HIGH, 0 to 1V DC = LOW
Absolute maximum VDC	30V DC (DI/DO)
Absolute maximum ADC	10mA (DI/DO)

SERIAL INTERFACE

Type	RS232 or RS485 (software configurable)
Connector	1 x 3-pin 3.5 mm female socket
Signal definition	RS232: TXD, RXD, GND RS485: A, B

PHYSICAL CHARACTERISTICS

Ingress protection	IP30
Housing & Weight	Metal, 350g
Dimensions	127 x 82 x 30 mm
Installations	Desktop, wall mounting and 35 mm DIN rail mounting
Operating temperature	-35 ~ +75°C
Storage temperature	-40 ~ +85°C
Relative humidity	5% ~ 95%

SDK

Supported programming language	C, C++
Flash available for SDK	16MB
RAM available for SDK	64MB

SOFTWARE

Network protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPS, DNS, ARP, BGP, RIP, OSPF, NTP, SMTP, Telnet, VLAN, SSH2, DDNS, etc
VPN tunnel	IPsec, OpenVPN, GRE, WireGuard
Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/ MAC address), Port Mapping, Access Control
Remote management	Web, CLI, SMS
Serial port	Transparent, TCP Client/Server, UDP, Modbus RTU Gateway

REGULATORY AND TYPE APPROVALS

Environmental	ROHS 2.0
EMI	EN 55032 Conducted Emission class B EN 55032 Radiated Emission class B
EMS	IEC 61000-4-2 (ESD) Level 4 IEC 61000-4-3 (RS) Level 2 IEC 61000-4-4 (EFT) Level 2 IEC 61000-4-5 (Surge) Level 2 IEC 61000-4-6 (CS) Level 2 IEC 61000-4-11 (DIP)



The type of antenna may vary.