




# ZHC493C

LTE Cat 1

Modbus RTU

ZHC493C is a support 2 Road dry (wet) node detection, 1 Relay (COM, NO) output, 1 Analog quantity (current 4~20mA) detection, 1 channel RS485 pass through, 1 way RS232 transparent transmission. The latest network IO products are compatible with Modbus RTU/TCP protocol. With "remote control" as the core function, it is highly easy to use, and users can easily and quickly integrate into their own systems to realize LTE, RS485 Remote and local control.

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 Main advantage

- ✓ Support JSON, Modbus RTU/TCP
- ✓ 1Relay output
- ✓ 2DI (dry/wet node) input
- ✓ 1Analog quantity (current) input
- ✓ TCP\_Client/ MQTT\_Client
- ✓ Trigger action at set time
- ✓ Cloud forwarding, cloud networking
- ✓ Local logic, inter-device logic
- ✓ Network registration package, heartbeat package
- ✓ Hardware watchdog
- ✓ Data trigger, regular report
- ✓ Remote configuration, remote upgrade
- ✓ The host computer supports configuration file import and export



# IOTRouter ZHC493C

LTE Cat 1  
Modbus RTU



## Network parameters

### Frequency band

LTE-FDD	B1/B3/B5/B8
LTE-TDD	B34/B38/B39/B40/B41
GSM	900/1800MHz

### data

LTE-FDD	Max 10Mbps(DL)/Max 5Mbps(UL)
LTE-TDD	Max 7.5Mbps(DL)/Max 1Mbps(UL)
EDGE	Max 236.8Kbps(DL)/Max 236.8Kbps(UL)
GPRS	Max 85.6Kbps(DL)/Max 85.6Kbps(UL)

### Sensitivity

FDD B1	-97.5 dBm	TDD B34	-96.3 dBm
FDD B3	-94.3 dBm	TDD B38	-97 dBm
FDD B5	-97 dBm	TDD B39	-96.3 dBm
FDD B8	-96.5 dBm	TDD B40	-97 dBm
		TDD B41	-96 dBm

### Electrical parameters

Class 3 (23 dBm  $\pm$ 2 dB) for LTE-FDD bands  
Class 3 (23 dBm  $\pm$ 2 dB) for LTE-TDD bands  
Class E2 (27 dBm  $\pm$ 3 dB) for EGSM900 8-PSK  
Class E2 (26 dBm  $\pm$ 3 dB) for DCS1800 8-PSK  
Class 4 (33 dBm  $\pm$ 2 dB) for EGSM900  
Class 1 (30 dBm  $\pm$ 2 dB) for DCS1800

EGSM900	-105 dBm
DCS1800	-106 dBm

## Serial port

Number of ports standard	RS485*1, RS232*1
Baud rate	600 ~ 921600bps
Data bit	8, 9
Stop bit	0.5, 1, 1.5, 2
Check Digit	NONE EVEN ODD

## DO

Number of interfaces standard	1Relay output
Mechanical durability	NO*1, COM*1
Electrical durability capacity	10 <sup>7</sup>
	10 <sup>5</sup>
	5A 250VAC 30VDC

## DI

Number of interfaces standard	2Switch input
Detection range (wet node)	DI*2, COM*1
	5~50V->High0~2V->Low

## power supply

Voltage	9~36V
Current	60mA(aver) @9V
	30mA(aver) @36V

## AI

Number of interfaces standard	of 1Analog input
scope of test	AI*1, G*1
	4~20mA

## EMC

ESD	IEC61000-4-2, Level 4
surge	IEC61000-4-2, Level 3
Group pulse	IEC61000-4-2, Level 3