

Ethernet Module	USR-TCP232-T2	USR-TCP232-S2	USR-K2	USR-TCP232-E2	USR-TCP232-ED2	USR-K3
Series	M0 series			M4 series		
Hardware Parameter						
Power						
VCC	3.0~3.6V					
VDD	5.0~7.0V	-	-	5.0~7.0V		-
Working Current	150mA (aver) /160mA (max) @3.3V 150mA (aver) /160mA (max) @5V	150mA (aver) /160mA (max) @3.3V	136mA (aver) @3.3V	120mA (aver) /125mA (max) @3.3V 120mA (aver) /125mA (max) @5V		110mA (aver) @3.3V
Ethernet Parameter						
10/100MbpsT(X)port	1	1	1	1	1	1
Ethernet port	RJ45	2.54mm interval PHY signal	RJ45		2.54 mm interval/Pin Ethernet Signal	RJ45
E-magnetic Isolation	1.5KV	-	1.5KV	1.5KV	1.5KV	1.5KV
Auto Switch between cross	✓	✓	✓	✓	✓	✓
Internal network transformer	✓	-	✓	✓	✓	✓
Serial Port Parameter						
Serial Port Number	TTL*1	TTL*1	TTL*1	TTL*2	TTL*3	TTL*1
Serial Pin	TX/RX			UART0:TX/RX/RTS/CTS UART1:TX/RX	UART0:TX/RX/RTS/CTS UART1:TX/RX/RTS/CTS UART2: TX/RX	TX/RX/RTS/CTS
RS485 Current-limit Resistor	✓	✓	✓	✓	✓	✓
Data Bit	5,6,7,8					
Stop Bit	1,2					
Parity Bit	NONE,ODD,EVEN,MARK,SPACE					
Baud Rate (bps)	600~460.8K			600~1M		
Other Parameter						
Size (mm)	50.5x22.6x15.0 (L*W*H)	33.0x20.3x2.0 (L*W*H)	33.0x19.0x19.2 (L*W*H)	50.0x30.0x23.2 (L*W*H)	44.5x31.8x15.4 (L*W*H)	33.0x19.0x19.2 (L*W*H)
package	Pin type	SMT type	Pin type			
Working Temp	-25~75°C			-40~85°C		
Storage Temp	-40~105°C					
Storage Humidity	5%~95% RH(No Condensation)					
Software Function						
Basic Function						
IP Getting Mode	Static IP or DHCP					
DNS	✓	✓	✓	✓	✓	✓
Set DNS Server address	✓	✓	-	✓	✓	✓
Built-in Webpage	✓	✓	✓	✓	✓	✓
Parameter Setting	network setting protocol/ WEB setting/AT command		network setting protocol/ WEB setting	network setting protocol/ WEB setting/AT command		
Transmission Mode						
Transparent Transmission	TCP Server / TCP client / UDP Server / UDP Client			TCP Server/TCP client/UDP Server/UDP Client/Double SOCKET mode		

HTTPD protocol	✓	✓	–	✓	✓	✓
MODBUS gateway	–	–	–	✓	✓	✓
Websocket	–	–	–	✓	✓	✓
Self- Custom Webpage	✓	✓	–	✓	✓	✓
RFC2217	✓	✓	✓	✓	✓	✓
Self-Custom Register Packet	✓	✓	–	✓	✓	✓
Self-Custom heartbeat packet	✓	✓	–	✓	✓	✓
Self-Custom MAC	✓	✓	–	✓	✓	✓
Timeout reboot	✓	✓	–	✓	✓	✓
Short connection	✓	✓	–	–	–	–
Connect clear buffer	✓	✓	–	✓	✓	✓
Transmission performance						
Client number that TCP Server supports	Default 4, at most 16	Default 4, at most 16	4	8	8	8
Network Sending Buffer	6Kbyte	6Kbyte	4Kbyte	16Kbyte	16Kbyte	16Kbyte
Network Receiving Buffer	4Kbyte	4Kbyte	2Kbyte	16Kbyte	16Kbyte	16Kbyte
Serial Port Sending Buffer	–	–	–	2Kbyte	2Kbyte	2Kbyte
Serial Port Receiving Buffer	800byte	800byte	800byte	2Kbyte	2Kbyte	2Kbyte
Serial Port Package	4 bytes package time, 400 bytes package length			Default 4 bytes package time, 1460 bytes package length. Time and length is settable.		
Average Transmission delay	<10ms(in local network)					
Relevant Software						
USR-VCOM	✓	✓	✓	✓	✓	✓
USR-Cloud	✓	✓	✓	✓	✓	✓
Setting Software	✓	✓	✓	✓	✓	✓
Reliability						
Certificate	CE, FCC			CE, FCC, ROHS	CE, FCC	CE, FCC, ROHS