

## BRIEF

The W22/W32 Series Wireless RTU has been designed ground up for professional wireless industrial applications with its strong on-board I/O capabilities and multiple communication interfaces such as: RS85 and optional RS232. For world-wide operation the W22/W32 Series Wireless RTU offers full band cellular network support with external antenna.



The W22/W32 family of products is used to acquire information from a remote device with serial communication or any type of analog or digital sensor. Together with the FDSP platform server, a powerful tool of acquisition and control is obtained for the implementation of Remote Acquisition projects.

## FUNCTION

### BASE FEATURES

Based on the well proven 32bit industrial class architecture.

Internal 1M/ KB Flash/RAM support.

Wide DC power range from 7-30 VDC.

Screw terminals for easy interfacing.

Support RTC

local Update firmware or by OTA mode

Could configure parameters remotely by GPRS/SMS

Sleep mode Support

Could send SMS alarm information to multi-cell phone users.

The cell phone numbers could be configured.

## CELLULAR FEATURES

TCP/IP communication over GPRS data network

Tri-Band GSM/GPRS Engine for world-wide operation.

Automatic reconnect in case of failure link

SMA connector for external antenna.

Supports all GSM features such as SMS /GPRS.

GPRS Class 10 support.

## IO FEATURES

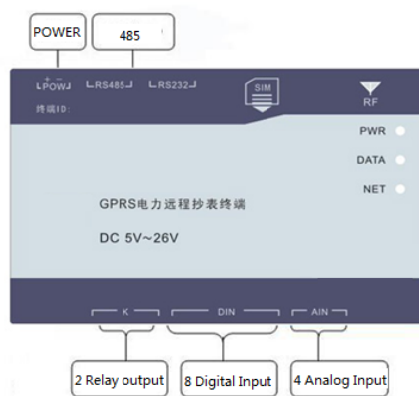
RS485 port with optional RS232

On-board 8 Digital inputs and 2 relay outputs (5A @ 250VAC / 30VDC).

On-board 4 analog inputs.

Analog inputs supports 0-5V/1-5V/0-20mA/4-20mA.

Event log with time stamp



## AMR FEATURES(W22 ONLY)

Support multi-type electric meters

Support reading multi-channels electric meters at the same time

Support DL/T645-1997 、DL/T645-2007 protocols and so on.

## MODBUS FEATURES(W32 ONLY)

Modbus Master can handle up to 256 modbus slave device

## SPECIFICATION

### Cellular network

Compatible Mobile		
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Networks		SMS/GPRS
Cellular Frequency		900/1800/1900Mhz
Bandwidth		UL/DL: 21.6/85.6kbps
<b>IO Interface</b>		
AI	4	0-5V/1-5V/0-20mA/4-20mA
DI	8	
Relay Output	2	5A/220V AC or 5A/30V DC
<b>Communication Port</b>		
RS485	1	3 lines Terminal interface W22: DL/T645-1997 、DL/T645-2007 protocol supported W32: Modbus RTU protocol supported
<b>Interface</b>		
Antenna	1X antenna for cellular network (50Ω SMA female interface)	
Antenna gain	3db	
LED	Power	
	Data	
	Net	
UIM/SIM	1.8V/3V	
<b>Power</b>		
Power supply	DC 12V/1A	
Input voltage	7~30V	
Power output	None	
Power consumption	Idle:	20mA@12VDC
	Max:	200mA@12VDC
	Average:	80mA@12VDC
<b>Physical</b>		
Operating Temperature	Storage: (-40°C to 85°C)	
	Working: (-35°C to 75°C)	
Humidity	95% Maximum (Non-condensing)	
Dimensions	Item (L x B x H): 120x80x25mm	
	Packaging (L x B x H): 260mm x 190mm x 65mm (10.3" x 7.5" x 2.6")	
Weight	Item: 800g (1.8lbs)	
	Packaging: 2.0 lbs	
<b>Others</b>		
Warranty	1 Year	
Package Contents	WRTU, Antenna,CD-ROM	

## PRODUCT MODEL

W22o1 GPRS network,8DI,4AI,2 Relay out, 645 protocol

W32o1 GPRS network,8DI,4AI,2 Relay out, modbus RTU master protocol