



## xLogic! CPU with Wi-Fi

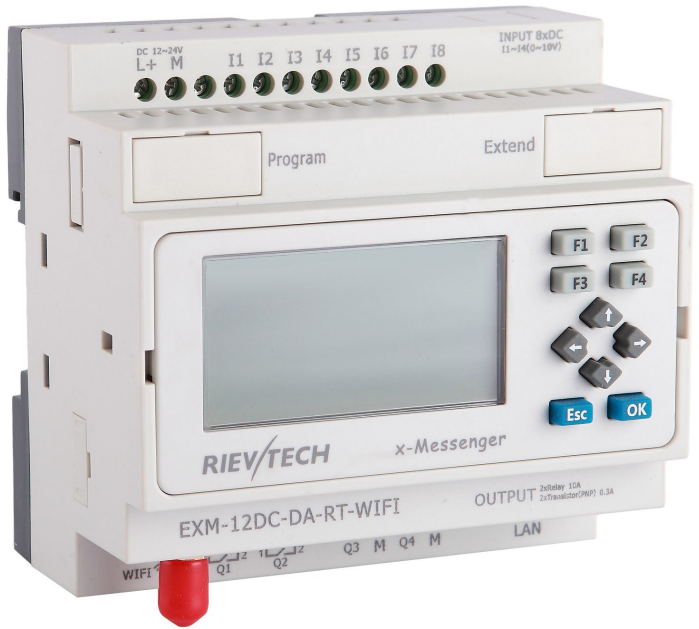
**Ideal solution for wireless Ethernet connectivity:  
the well-proven logic module – now also with Wi-Fi**

Micro Automation

**Version: V 1.1**

**Rievtech Electronic Co., Ltd**

- **Wireless Ethernet connectivity**
- **802.11b/g/n wireless standards**
- **RS232,RS485 with Modbus connectivity**
- **GSM&GPRS function optional**



**Ideal solution for wireless Ethernet connectivity**

Ideal solution for those projects that require Ethernet connectivity, but require this to be wireless as well, then our range of Wi-Fi programmable logic controllers may be just the solution. For extra connectivity, some of these Wi-Fi PLC's also incorporate a GSM modem, which provides GPRS/SMS connectivity to your micro PLC control system. Meanwhile, our Android app (monitoring and control software for smart phone) can be perfectly applied to our Wi-Fi PLC. Hence, you can expect to use your Android smart phone to remotely control and monitor your CPU.

**the well-proven Wi-Fi to UART modem built-in**

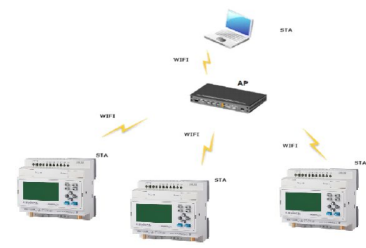
- Support 802.11b/g/n wireless standards
- Support TCP/IP/UDP network protocols
- Support work as STA/AP mode
- Support Router/Bridge mode networking
- Support Friendly Web Configuration Page(and also can be configured with eSmsConfig.
- Support Palmodic Signal, WIFI connection instruction Outdoor 100m with 3dBi antenna and indoor 40m;

**Function extensions**

- Astronomical clock
- Min./Max.
- Average value
- Analog filter
- Stopwatch
- Device Reset
- Comport status

**New communication options**

A. The networking is mainly used for direct wireless communication(based on the Modbus TCP protocol) between several x-Messenger devices.



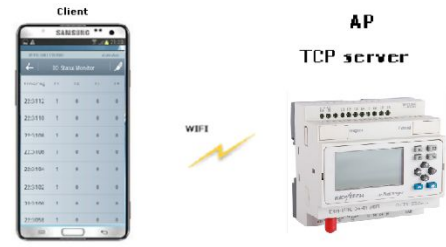
B. Directly communicate with other brand automatic components via TCP/IP connection based on MODBUS TCP protocol



C. Thanks to the modbus blocks we can play the CPU works as master or slave. Combined with RS232&RS485 ports to realize complex communication system.



D. Android smart phone directly can be used to monitor and control the Wi-Fi PLC with xLogicApp.



# Wi-Fi PLC-No GSM . The anatomy

**Power supply input**  
DC 12/24V

**Input terminals-Optional signal:**

- A. Digital input : DC12/24V AC110-240(Only available on extension)
- B. Analog input: DC(0..10V),  
0/4..20mA, PT100(-50℃---+200℃)(Only available on extension)

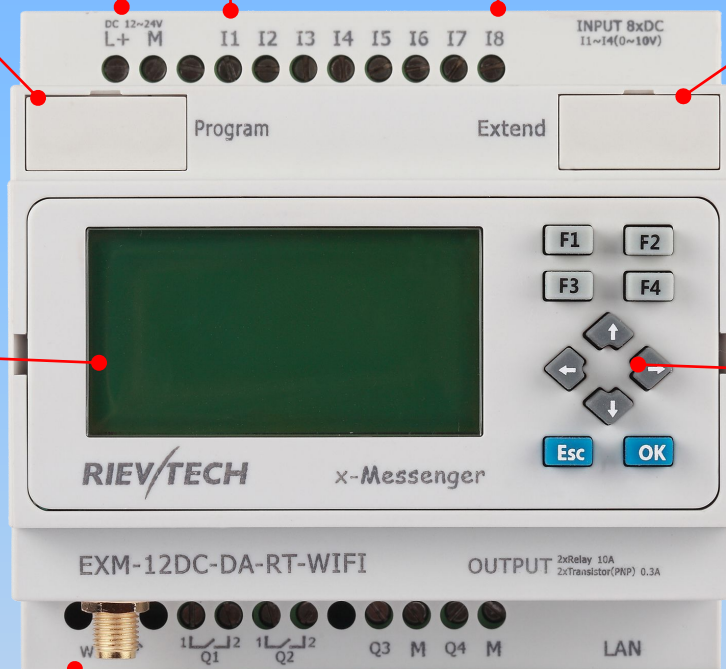
**Programming port:**  
RS232/USB/RS485;  
CPU can act as either  
Master or slave in modbus  
network via such COM port

**Expansion port/RS485 port;**  
Up to 8 expansions available;  
CPU can act as either Master or  
slave in modbus network via  
such COM port.

**Detachable 4\*16 LCD**  
displays :

- a. CPU RUN/STOP,
- b. Communication status
- c. I/O status
- d. Parameters  
(i.e analog  
values, counters etc)
- e. alarming messages

**10 Panel keys for manual**  
operation: for instance,  
Control program , change  
parameters and view  
alarming messages



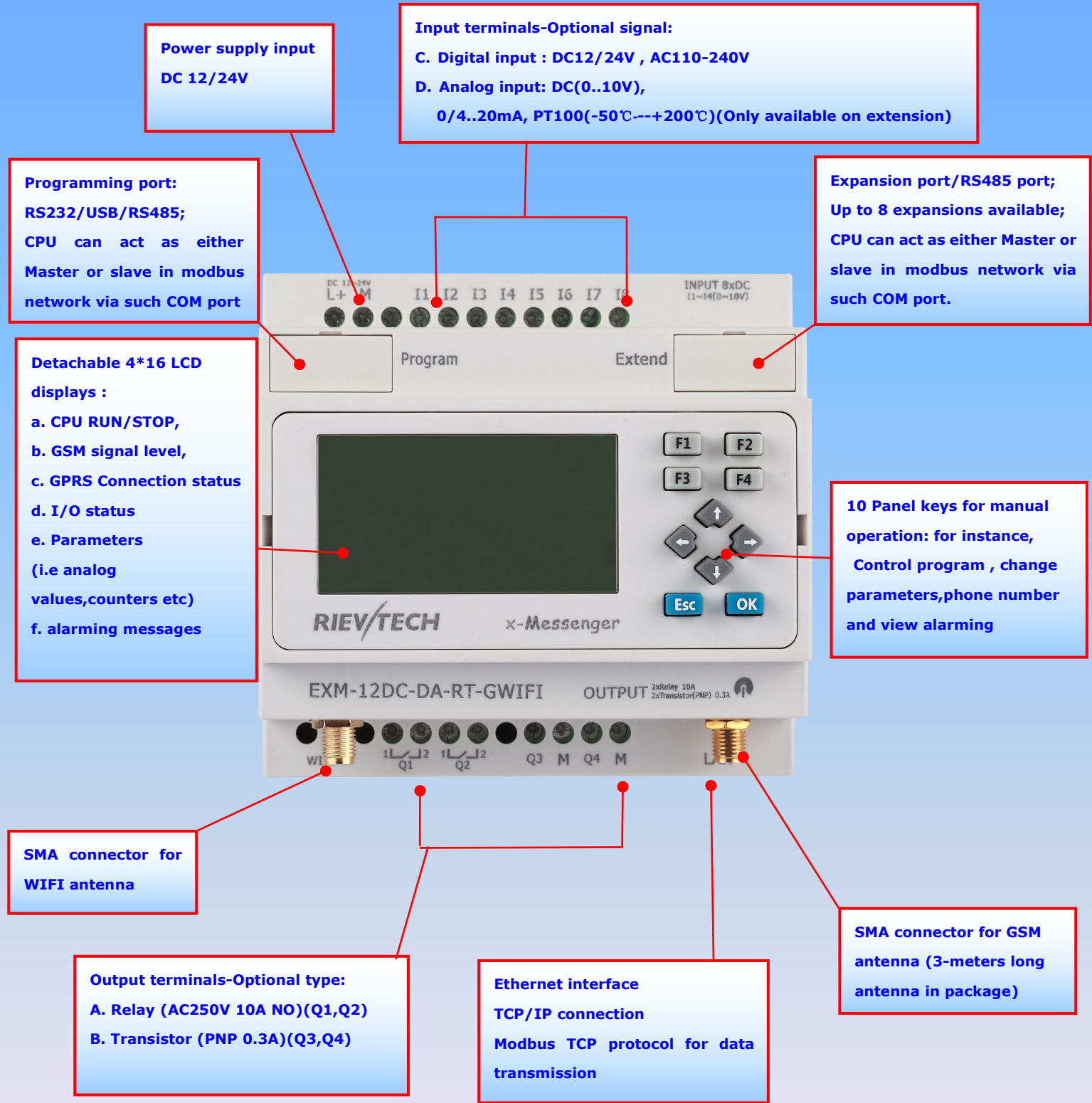
**SMA connector for**  
WIFI antenna

**Output terminals-Optional type:**

- A. Relay (AC250V 10A NO)(Q1,Q2)
- B. Transistor (PNP 0.3A)(Q3,Q4)

**Ethernet interface**  
TCP/IP connection  
Modbus TCP protocol for data  
transmission

# Wi-Fi PLC-With GSM . The anatomy



## Technical specifications

CPU model	EXM-12DC-DA-RT-WIFI	EXM-12DC-DA-RT-GWIFI
Power	DC 12--24V	
Input	8 Digital	8 Digital
Analog input	4 (DC 0...10V)	
Permissible range with signal "0"	10.8 V ... 28.8 V DC	
with signal "1"	Max. 3 V DC,1mA	
Input current	Max.8 V DC,1.5 mA	
Output	2 Relay +2Transistor(PNP)	
Continuous current	Relay:10 A with resistive load;2 A with inductive load Transistor: 0.3A	
Short-circuit protection	External fuse required	
Switching frequency	Relay: 2 Hz with resistive load; 0.5 Hz with inductive load Transistor: 1KHz	
Wi-Fi modem	Yes	
RTC (real time clock)	Yes	
LCD panel	Yes (4*16 characters)	
PWM output	Yes	
High speed input	I7,I8 (60KHZ)	
Ethernet interface	Yes	
Data logger	ELC-MEMORY optional ;No SD card socket	
Communication port	1 RS232,1 Expansion port/RS485, 1Ethernet/Wi-Fi	
SMS	NO	YES
GPRS	NO	YES
Communication protocol	Modbus RTU/ASCII/TCP	
Expansion	Yes	
25°C RTC backup time	20days	
Ambient temperature	-20°C to + 55 °C	
Storage temperature	- 40 °C to+ 70 °C	
Degree of protection	IP20	
Certification	CE	
Mounting	On 35 mm standard mounting rail, 4 MW, or wall-mounting	
Dimensions	W x H x D (95*90*68 mm)	
Weight	500g	
Support 802.11b/g/n wireless standards		
Support TCP/IP/UDP network protocols		
Support work as STA/AP mode		
Support Router/Bridge mode networking		
Support Transparent/Agreement Transmission Mode(Transparent used by EXM CPU)		
Support Friendly Web Configuration Page or configuration by eSmsconfig		
Outdoor 100m with 3dBi antenna and indoor 40m		
FCC /CE Certificated		