µPAC-5201(D)-3GWA

3G Palm-sized PAC with 80186-80 CPU, MiniOS7
(7-Segment LED Display)

Features

- Built-in High-Performance MiniOS7 from ICP DAS
- Easy-to-use Software Development Tool Kits (Using C language)
- Various Storage Media
  - 512 KB Flash
  - 16 KB EEPROM
  - microSD (Up to 32GB micro SD cards are supported)
  - 3G Wireless Data Communication
- Various Communication Interfaces (Ethernet, RS-232/RS-485)
- 64-bit Hardware Serial Number
- I/O Expansion Bus Interface

Introduction

The µPAC-5201(D)-3GWA is a programmable automation controller with RS-232/485 and Ethernet communication interfaces. The µPAC-5201(D)-3GWA also includes a 3G modem for wireless data communication. ICP DAS provides easy-to-use software development tool kits (MiniOS7 framework, Modbus libraries). Users can use them to easily integrate serial devices to have Ethernet/Internet communication ability and through the standard Modbus protocol to communicate with SCADA software (Indusoft, ISaGARF, DasyLab, Trace Mode, Citect, iFix, etc.).

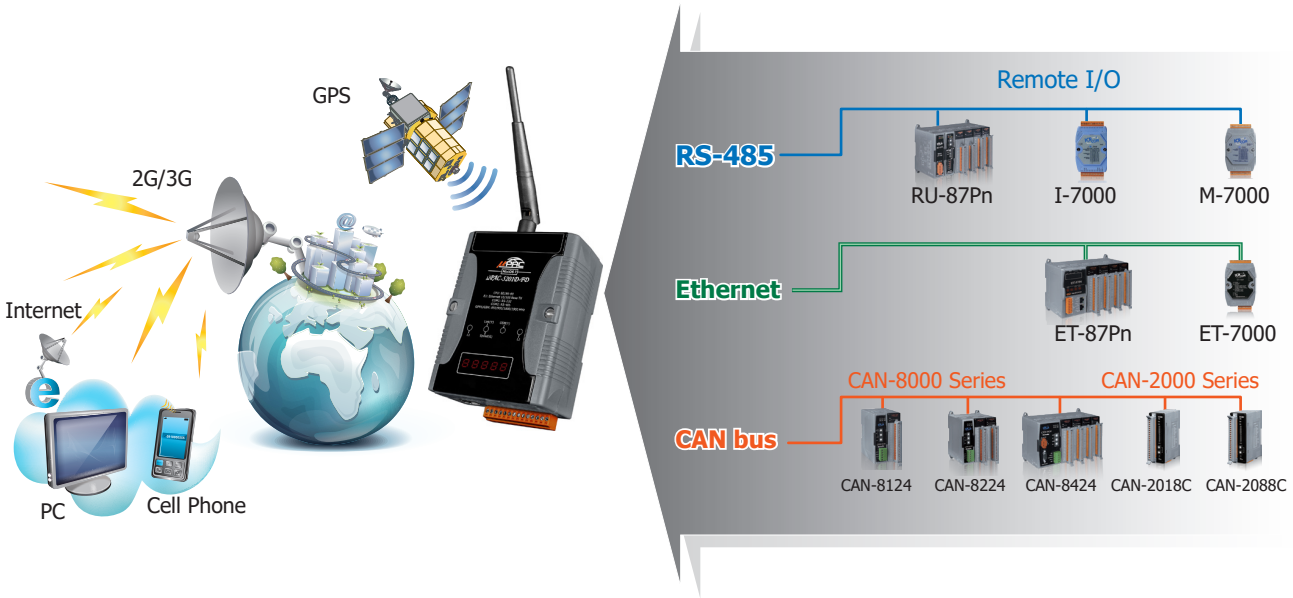
For hardware expansion, the µPAC-5201(D)-3GWA also supports an I/O expansion bus. A cost-effective I/O expansion board with A/D, D/A, D/I, D/O and serial ports is available. Nearly all kinds of I/O functions can be implemented by this bus. There are more than 10 boards available for µPAC-5201(D)-3GWA, you can choose one of them to expand hardware features.

Powerful Embedded OS — MiniOS7

MiniOS7 is the most stable OS used in the last decade. Up to now, several hundred thousand copies with our PACs have been distributed worldwide.

- DOS-like embedded OS
- Antivirus ability
- Internet connectivity
- Short boot period (<1 Second)
- Less memory resource required
- Faster watchdog response time
- Libraries & demo programs for various peripherals, devices and remote I/O modules

Appications

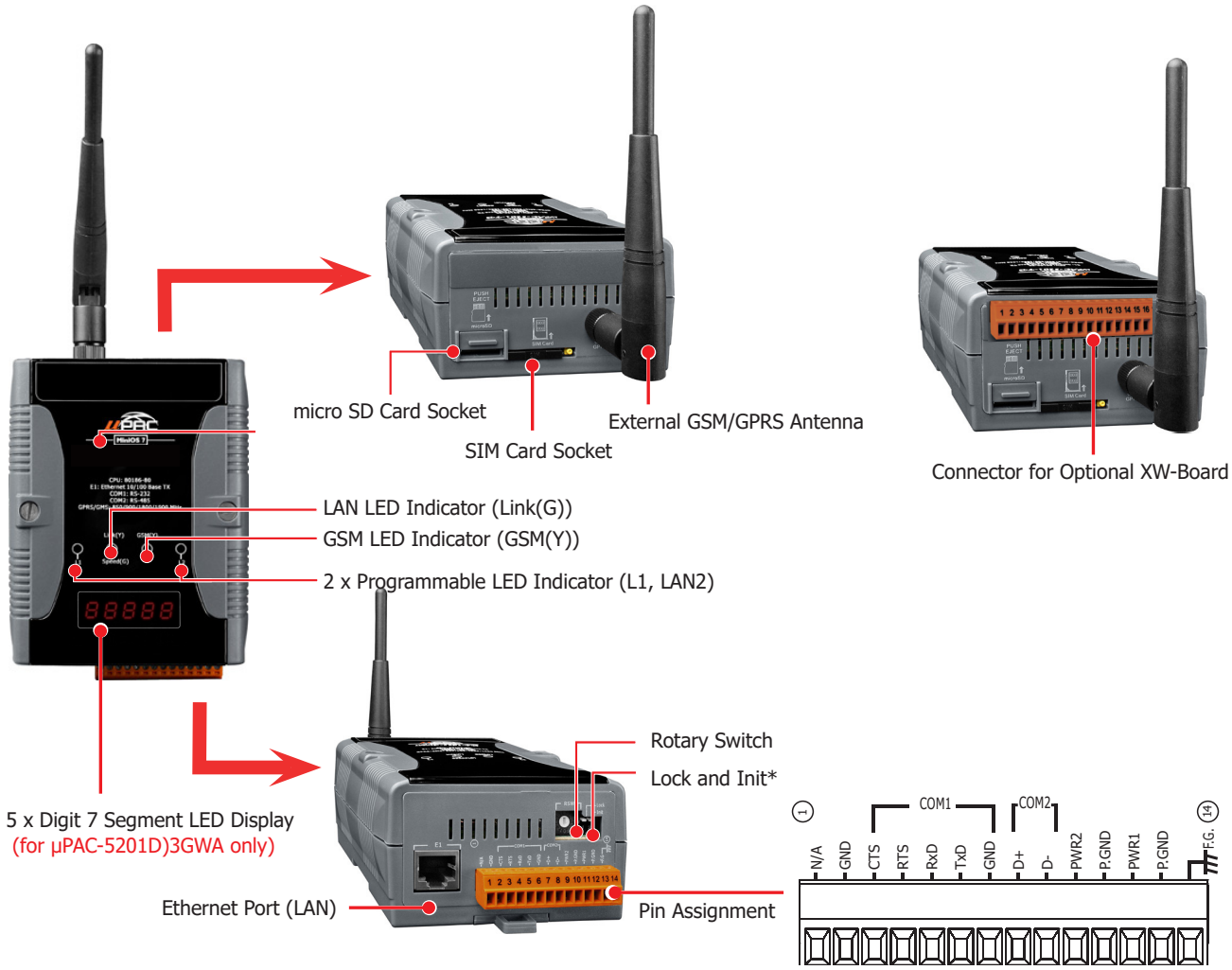


Specifications

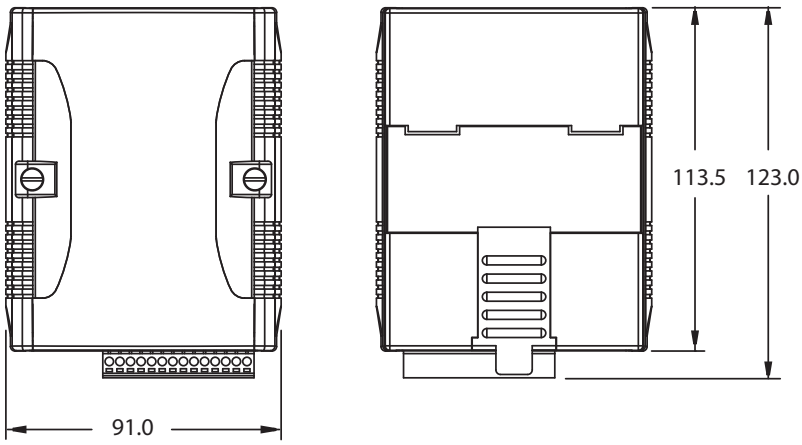
Model	µPAC-5201-3GWA	µPAC-5201D-3GWA
Software		
OS	MiniOS7	
Development	C Language	
CPU Module		
CPU	80186 or compatible, 16-bit and 80 MHz	
SRAM	512 KB	
Flash	512 KB	
EEPROM	16 KB	
NVRAM	31 Bytes	
Storage Expansion	Yes, support up 32 GB microSD card	
RTC (Real Time Clock)	Provide seconds, minutes, hours, dates, day of week, month, year	
64-bit Hardware Serial Number	Yes	
Watchdog Timer	Yes	
Display		
Type	-	5 x Digit 7 Segment LED Display
LED Indicator		
Status	2 x Programmable	
Communication Interface		
Ethernet	1 x RJ-45, 10/100 Base-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)	
COM1	RS-232 (TXD, RXD, RTS, CTS, GND), Non-isolated, Speed: 115200 bps Max.	
COM2	RS-485 (Data+, Data-) with internal self-tuner ASIC; Non-isolated, Speed: 115200 bps Max.	
3G System		
Data Transmission	UMTS / HSDPA / HSUPA; Upload: Max. 5.76 Mbps; Download: Max. 7.2 Mbps	
Frequency Band	UMTS : 2100/1900/850 MHz	
I/O Expansion		
I/O Type	XW-board	
Mechanical		
Dimension (W x H x D)	91 mm x 123 mm x 52 mm	
Installation	DIN-Rail Mounting	
Environmental		
Operating Temperature	-25 ~ +75 °C	
Storage Temperature	-30 ~ +80 °C	
Humidity	10 ~ 90 % RH, Non-condensing	
Power		
Input Range	+12 ~ +48 VDC	
Redundant Power Inputs	Yes	
Consumption	2.0 W	2.5 W

ANT-421-02 (Standard Antenna for 3G)			
Connector	SMA Male	Gain (dBi)	1.0 ±0.7 @ 830 MHz, 0.5 ±0.7 @ 1730 MHz
Radiation	Omni-Directional	Band	824 ~ 960 MHz, 1710 ~ 2170 MHz
Cable Length	3 M	Installation	Magentic mount base

Appearances



Dimensions (Units: mm)



Front View | Back View | Left Side View

Ordering Information

µPAC-5201-3GWA CR	3G Palm-sized PAC with 80186-80 CPU, MiniOS7 (RoHS)
µPAC-5201D-3GWA CR	3G Palm-sized PAC with 80186-80 CPU, MiniOS7 and 7-Segment LED Display (RoHS)