



High quality data acquisition and embedded control products.

uPac-7186EX-FD-X305B



This data acquisition controller is equipped with an 80MHz CPU, 64 MB Flash Memory, 7 Analog inputs, 1 digital output, 1 digital input, one 10/100 Base T Ethernet port and 3 Serial ports. It is designed for doing data logging and control. It fits many different applications including, but not limited to, lab application, test equipment, pump station, water treatment, machine control and more. With a built in RS 485 port, it can have up to 255 remote I/O module expansion capability.

FEATURES

- Has Built in Web Server for remote access and remote monitoring via the Internet
- Has Built 64 MB Flash Memory built in with file system for local data logger applications
- Has Built in Analog and Digital I/O Points for Logic Control and Data Acquisition
- Has one 10/100 Base-T Ethernet Port and Three Serial Ports
- Has I/O Expansion Bus Interface for additional I/O
- Supports VxComm Technology: Virtual COM ports map the RS-232/RS-485
- Supports Modbus TCP on Ethernet Port and Modbus RTU on RS-485 Port
- Has Built in Watchdog Timer (WDT): Triggers System Reset if Main Program Fails.

SPECIFICATIONS

CPU	80186, 80MHz or compatible
SRAM	512 KB
Flash	512 KB. Erase unit is one sector (64 KB); 100,000 erase/write cycles.
NAND Flash	64 MB x 8 Bits. Data retention: 10 years or 100,000 erase/write cycles.
EEPROM	16 KB. Data retention: 40 years or 1,000,000 erase/write cycles.
NVRAM	31 Bytes (battery backup, data valid up to 10 years)
RTC (Real Time Clock)	Year-2000 compliance: seconds, minutes, hours, date of the month. Month and year are valid from 1980 to 2079
COM1	RS-232 (TXD, RXD, CTS, RTS and GND); Non-isolation
COM2	RS-485 (D2+, D2-; self-tuner ASIC inside); Non-isolation
Ethernet Port	10/100Base-TX Ethernet Controller (Auto-negotiating, Auto_MDIX, LED indicator)
Data bit/Parity/Stop Bit	7, 8 / Even, Odd, None / 1
5-Digit 7 Segment LED	Yes (for μ PAC-7186EXD-FD only)
I/O Expansion Bus	Yes with 14 User Defined I/O Pins
μPAC-7186EX(D)-FD	123 mm x 72 mm x 33 mm
Operating Temperature	-25°C to +75°C
Storage Temperature	-40°C to +80°C
Relative Humidity	5% to 95% Non-condensing
Protection	Power reverse polarity protection, Frame Ground for ESD Protection
Required Voltage Supply	+10 to +30VDC (non-regulated)
Power Consumption	2.0W for μ PAC-7186EX-FD 3.0W for μ PAC-7186EXD-FD