

ECU-P1706 ECU-P1702 ECU-P1300

**250 KS/s, 16bit, Simultaneous 8-ch Analog
input PCI-104**

**10 MS/s, 12bit, Simultaneous 4-ch Analog
input PCI-104**

Vibration Signal Modulate Card

NEW



Features

- Designed for Smart-Grid Applications
- ECU-P1706 focuses on the Vibration/ Substation Signal Analytics (Wind-Power / Smart Substations)
- ECU-P1702 focuses on the Partial Discharge Detection and Analytical Devices (Smart Substations)
- ECU-P1300 focuses on Vibration Applications (Wind-power / Smart Substations)
- Easy to install to ECU-1871 Energy Controller

ECU-P1706

Specifications

General

- Power Consumption** Typical: 5V @ 850mA
- Bus Type** PCI-104
- I/O Connector** Plug-in Terminal Block
- Operating Temperature** -20 ~ 70°C (-4 ~ 158°F)
@ 5 ~ 85% RH
- Storage Temperature** -40 ~ 80°C (-40 ~ 176°F)
- Storage Humidity** 5 ~ 95% RH,
non-condensing
(IEC 60068-2-3)

Analog Input

- Channels** 8 differential
- Resolution** 16 bits
- Max. Sampling Rate** 250 KS/s
- FIFO Size** 8K samples
- Overvoltage Protection** ±30V
- Input Impedance** 18MΩ
- Sampling Mode** Software, onboard programmable pacer and external (TTL Level)
- Trigger mode** Delay To Start Trigger, Delay To Stop Trigger
- Trigger Source** Analog Trigger, External Trigger
- Input Range** (V. Software Programmable)

Bipolar	±10V	±5V	±2.5V	±1.25V
Accuracy % of FSR±1LSB	0.04	0.04	0.06	0.08

Timer Counter

- Channels** 2
- Resolution** 32 bits
- Mode** In: Event counting, Frequency In, PWM In
- Compatibility** Isolated 24V_{DC}
- Max. Input Frequency** 1 MHz
- Max. Output Frequency** 1 MHz

Ordering Information

- ECU-P1706-AE** 250 KS/s, 16bit,
Simultaneous 8-ch
PCI-104

ECU-P1702

Specifications

General

- Power Consumption** 5V @ 700mA (Max.)
3.3V @ 850mA (Max.)
- Bus Type** PCI-104
- I/O Connector** BNC
- Operating Temperature** -20 ~ 70°C (-4 ~ 158°F)
@ 5 ~ 85% RH
- Storage Temperature** -40 ~ 80°C (-40 ~ 176°F)
- Storage Humidity** 5 ~ 95% RH,
non-condensing
(IEC 60068-2-3)

Analog Input

- Channels** 4 Single-ended
- Resolution** 12 bits
- Max. Sampling Rate** 10 MS/s
- FIFO Size** 32K samples
- Overvoltage Protection** ±15V
- Input Impedance** 50 ohm/1M ohm/Hi Z
switch selectable
- Sampling Mode** Software, onboard programmable pacer and external (TTL Level)

- Trigger mode** Delay To Start Trigger, Delay To Stop Trigger
- Trigger Source** Analog Trigger, External Trigger
- Input Range** ±5V, ±2.5V, ±1V, ±0.5V

Ordering Information

- ECU-P1702-LAE** 10 MS/s, 12bit,
Simultaneous
4-ch PCI-104

ECU-P1300

Specifications

General

- Power Consumption** Typical: 5V @ 700mA;
12V @ 100mA
- Operating Temperature** -20 ~ 70°C (-4 ~ 158°F)
@ 5 ~ 85% RH
- Storage Temperature** -40 ~ 80°C (-40 ~ 176°F)
- Storage Humidity** 5 ~ 95% RH,
non-condensing
(IEC 60068-2-3)

Vibration Modulate

- Channels** 8
- Input Range** ±5V (Max.)
- Output Range** ±10V
- Input Coupling** AC
- Sensor Current Supply** 4mA ±1%, 24V compliant
- Precision** 0.1%
- Drive Ability** 0 ~ 5K
- Sensor Signal Gain** 1
- Signal Gain** 1
- Analog Filter** 8th order Lowpass Bessel
Filters
- Filter Adjustable** 0.1 Hz ~ 25KHz Adjustable
by Software Program

Ordering Information

- ECU-P1300-AE** Vibration Signal Modulate
Card