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

ECU-P1706 focuses on the Vibration/ Substation Signal Analytics

ECU-P1702 focuses on the Partial Discharge Detection and Analytical Devices

Features

(Smart Substations)

Designed for Smart-Grid Applications

(Wind-Power / Smart Substations)

(Wind-power / Smart Substations) Easy to install to ECU-1871 Energy Controller

ECU-P1300 focuses on Vibration Applications



ECU-P1706

Specifications

General

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

+30V

 $18M\Omega$

Triaaer

Software, onboard

external (TTL Level)

Delay To Start Trigger,

Delay To Stop Trigger

Analog Trigger, External

(V. Software Programmable)

programmable pacer and

8 differential

PCI-104

@ 5 ~ 85% RH

Analog Input

- Channels
- Resolution 16 bits
- Max. Sampling Rate 250 KS/s **FIFO Size** 8K samples
- Overvoltage
- Protection
- Input Impedance
- Sampling Mode
- Trigger mode
- Trigger Source
- Input Range

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

2

Timer Counter

- Channels
- Resolution 32 bits
- Mode In: Event counting, Frequency In, PWM In
- Compatibility
- Max. Input Frequency 1 MHz

Max. Output Frequency 1 MHz

Ordering Information

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

Isolated 24V_{DC}

ECU-P1702

Specifications

General

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

4 Single-ended

32K samples

12 bits

BNC

-20 ~ 70°C (-4 ~158°F)

- Max. Sampling Rate 10 MS/s
- FIFO Size
- Sampling Mode
 - **Trigger Source**
- Input Range

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 -20~70°C (-4~158°F) Operating
- Temperature @ 5 ~ 85% RH Storage Temperature -40 ~ 80°C (-40 ~176°F)
- Storage Humidity 5~95% RH.
 - non-condensing (IEC 60068-2-3)

8

±10V

01%

Filters

AC

±5V (Max.)

Vibration Modulate

- Channels Input Range
- Output Range
- Input Coupling
- Sensor Current
- Supply
- Precision
- Drive Ability $0 \sim 5 K$ 1
- Sensor Signal Gain
- Signal Gain
- Analog Filter
- Filter Adjustable

0.1 Hz ~ 25KHz Adjustable by Software Program

8th order Lowpass Bessel

4mA ±1%, 24V compliant

Ordering Information

ECU-P1300-AE

Vibration Signal Modulate Card

Online Download www.advantech.com/products

All product specifications are subject to change without notice

- Overvoltage Protection Input Impedance

 - Trigger mode

50 ohm/1M ohm/Hi Z switch selectable

±15V

- Software, onboard programmable pacer and external (TTL Level) Delay To Start Trigger, Delay To Stop Trigger Analog Trigger, External Trigger
- ±5V, ±2.5V, ±1V, ±0.5V

Storage Humidity **Analog Input** Channels Resolution