



## e-AR300T / e-AR400

Accelerometer Input Module

### Introduction

The e-AR series is a range of high-performance dynamic signal acquisition modules that are designed specifically for vibration monitoring and analysis. The maximum simultaneous sampling rate for each channel is up to 125k-Hz. The e-AR series modules include a built-in 3mA excitation current to power the Integrated Electronics Piezo-Electric (IEPE) accelerometers and a 16-bit A/D converter.

The e-AR series installed on AXP-9000 with 64-bit Windows 10 IoT OS supports DLL SDK and Active X control together with various language sample programs based on Visual C++, Visual Basic, C#.NET, Visual Basic.NET and LabVIEW. Consequently, the e-AR series modules are recommended as your best choice for vibration monitoring and measurement.

### Applications

- Big data analysis
- System monitoring
- Trend analysis
- Predictive maintenance

### Ordering Information

<b>e-AR300T CR</b>	Accelerometer Input Module, 3-port IEPE Interface, 1-channel Thermistor Input (RoHS)
<b>e-AR400 CR</b>	Accelerometer Input Module, 4-port IEPE Interface (RoHS)

### Features

- 3/4 simultaneous, 16-bit resolution ADC
- IEPE input, and built-in 3 mA excitation current.
- Support Max. sampling rate: 125kHz
- Provide LED indicators.
- 4 kV Contact ESD protection for any terminal



### System Specifications

Model	e-AR300T	e-AR400
<b>LED Indicators</b>		
Status	1 x PWR 1 x N1 1 x N2 1 x N3	1 x PWR 1 x N1 1 x N2 1 x N3 1 x N4
<b>Temperature Measurement</b>		
Sensor Type	Installation	-
Channels	1	-
Range	0 °C ~ +80 °C	-
Accuracy	±2 °C	-
Installation	Wall-mount	-
<b>Analog Input</b>		
Channels	3 (simultaneous sampling)	4 (simultaneous sampling)
Type	IEPE	
Range	Voltage: ±10 V Current: 3mA	
Resolution	16 bit	
Sampling Rate	5, 10, 20, 50, 100, 125 (kHz)	
<b>Power</b>		
Consumption	4.3 W	
<b>Mechanical</b>		
Dimensions (mm)	31 x 134 x 144 (W x L x H)	
<b>Environment</b>		
Operating Temperature	-25 ~ +75°C	
Storage Temperature	-30 ~ +80°C	
Humidity	10 ~ 90% RH, non-condensing	