



<b>□</b> Features
On the fly processing: EtherCAT
Powerful MCU handles efficient network traffic
2 x RJ-45 bus interface
■ Distance between stations up to 100 m (100 BASE-TX)
Support daisy chain connection
■ EtherCAT conformance test tool verified
Removable terminal block connector
■ LED indicators
■ 1 channel loadcell transducer Input
■ RoHS compliant
■ ESD Protection 4 KV Contact for each channel
CE FE ROHS Z

#### **■** Introduction

The ECAT-2000 is equipped with the EtherCAT protocol and installed by daisy chain connection which permits the flexibility in devices installation and reduces infrastructure and operation costs. All the modules can be deployed in the network topologies such as star, line or ring. The isolation input and output design protects the ECAT-2000 against the harmful interference and environment.

The ECAT-2016N is 1-channels analog input terminal permits direct connection of a resistor bridge. Users can obtain the input status via the process data. It has passed and verified by the conformance test tool, therefore eligible EtherCAT Master or configuration can manipulate it simply and implement your various applications easily.

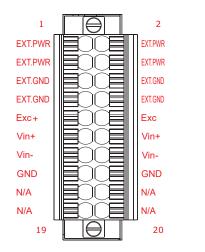
\* EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

### **■ Hardware Specifications**

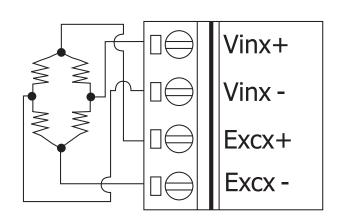
Strain Gauge Input		
Channels	1	
Sensor	Full-Bridge	
Resolution	16-bit	
Accuracy	±0.1% of FSR	
Input Range	±1.25 V, ±600 mV, ±300 mV, ±125 mV, ±80 mV, ±60 mV, ±40 mV, ±30 mV, ±20 mV, ±15 mV, ±10 mV	
Sampling Rate	1k Hz per channel	
Input Impedance	20 ΜΩ	
Excitation Voltage		
Channel	1	
Output Voltage	10 V	
Max. Load Current	40 mA	
EMS Protection		
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal	
EFT (IEC 61000-4-4)	Signal: 1 KV Class A; Power: 1 KV Class A	
Surge (IEC 61000-4-5)	1 KV Class A	
Power		
Input Voltage Range	+10 ~ +30 VDC	
Power Consumption	4 W Max.	
Mechanical		
Dimensions (W x L x H)	33 mm x 127 mm x 108 mm	
Installation	DIN-Rail Mounting	
Casing	Plastic	
Environment		
Operating Temperature	-25 ~ +75°C	
Storage Temperature	-30 ~ +80°C	
Relative Humidity	10 ~ 90% RH, Non-condensing	

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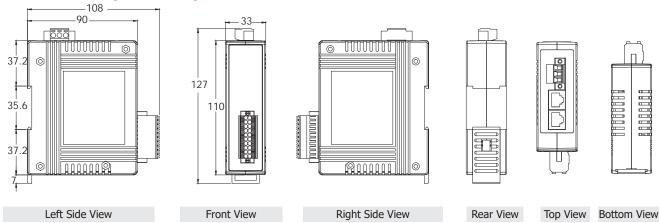
## **■ Pin Assignments**



## Wire Connections



## **■** Dimensions (Units: mm)



F.G.

GND

+Vs

IN

OUT

# **■ Ordering Information**

ECAT-2016N CR EtherCAT Slave I/O Module with 1-channel Strain Gauge (RoHS)

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