

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 ECAT-2011H/2012H is built in isolated 8 Differential or 16-channel Single-ended Analog Inputs by software selectable. The voltage is digitaised to a resolution of 12-bit(ECAT-2011H) and 16-bit(ECAT-2012H) The The ECAT-2011H/2012H has passed and verified by the conformance test tool, therefore eligible EtherCAT Master or configurator can manipulate it simply and implement your various applications easily. * EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany

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Hardware Specifications

Model	ECAT-2011H	ECAT-2012H	
Analog Input			
Channels	8/16		
Wire Connection	8 Differential or 16 Single-ended (Software Selectable)		
Туре	Voltage, Current		
Range	$0\sim10V$, ±10 V, ±5 V, ±2.5 V, $0\sim20$ mA, ±20 mA or $4\sim20$ mA (Software selectable)		
Resolution	12-bit	16-bit	
Sampling Rate	1k Hz per channel	1k Hz per channel (Max. of 6 channel enable)	
Accuracy	0.2% of FSR	0.05% of FSR	
Individual Channel Configuration	Yes		
Over Voltage Protection	±35 VDC		
Open Wire Detection for +4 ~ 20mA	Yes		
Communication Interface			
Connector	2 x RJ-45		
Protocol	EtherCAT		
Distance between Stations	Max. 100 m (100 BASE-TX)		
Data Transfer Medium	Ethernet/EtherCAT Cable (Min. CAT 5), Shielded		
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		
Case Material	UL 94V-0 Housing		
Environment			
Operating Temperature	-25 ~ +75°C		
Storage Temperature	-30 ~ +80°C		
Relative Humidity	10 ~ 90% RH, Non-condensing		

Pin Assignments

Wire Connections



ECAT-2011H/ECAT-2012H

Dimensions (Units: mm)



Ordering Information

ECAT-2011H CR	EtherCAT Slave I/O Module with 8 Differential or 16 Single-ended Analog Input Channels (RoHS)
ECAT-2012H CR	EtherCAT Slave I/O Module with 8 Differential or 16 Single-ended Analog Input Channels (RoHS)