


# I/O Extension Module

## ET Series

 **EtherCAT Standard Slave Module  
Adaptation Standards  
EtherCAT Master Device**

 **Feature-rich, meeting the needs  
of different applications**

 **Module/channel status light for  
easy diagnosis**

 **Tool-free wiring, front connector,  
easy maintenance**



Model	Function	Status
ET0100	EtherCAT terminal coupler	Released
ET1016	16-channel digital input module PNP	Underplanning
ET1216	8-channel digital input module, 8-channel digital output module NPN	Released
ET1316	8-channel digital input module, 8-channel digital output module PNP	Released
ET2016	16-channel digital output module PNP	Underplanning
ET3004	4-channel analog input module $\pm 10V$ ; 0-10V; $\pm 5V$ ; 0-5V; 1-5V; $\pm 20mA$ ; 0mA-20mA; 4mA-20mA Resolution 16bit	Underplanning
ET4104	4-channel analog output module $\pm 10V$ ; 0-10V; $\pm 5V$ ; 0-5V; 1-5V; Resolution 16bit	Underplanning
ET4204	4-channel analog output module 0mA-20mA; 4mA-20mA Resolution 16bit	Underplanning
ET9410	Power supply module with diagnostic function	Underplanning
ET9000	Terminal cover module	Released

## ET0100 Coupler

ET0100 is a remote I/O terminal slave module, which is usually used to connect digital, analog and other EtherCAT slave stations. It can convert signals from 100 Mbps Ethernet signals to S-Bus bus signals. The maximum transmission distance of EtherCAT bus is 100m.

Up to 32 I/Os that can be connected;

Port1 EtherCAT signal input; Port2 is an extensible interface. This module allows the topological structure formed into linear or star topology.



Specification	Description
Bus protocol	EtherCAT
Data transmission medium	Shielded Ethernet/EtherCAT (at least CAT5e)
Transmission distance	Max. 100m (100BASE-TX)
Connection method	2 x RJ45
Transmission speed	100 Mbit/s
Number of supported nodes	Max 32
I/O bus type	S-Bus
Module power supply (Us)	24 V DC (-15 %/+20 %)
Module power supply (Up)	max. 24 VDC, max. 10 A
S-bus internal power supply (5V)	max.2A(-20...+55 °C)
Up rated current consumption	Determined by the load
Configuration	No need to set an address.
Operating/Storage temperature	-20...+55 °C/-40...+85 °C
Relative humidity	95% (no condensation)
Protection class	IP 20
Dimensions (width × height × depth)	25mm × 112mm × 95mm (depth with lug 110mm)

## ET1216 Digital Quantity I/O & ET1316 Digital Quantity I/O

ET1216 digital input/output compound module, contains 16 channels (8 channels for digital input, 8 channels for digital output), with LED light showing the channel status.

ET1316 digital input/output compound module, contains 16 channels (8 channels for digital input, 8 channels for digital output), with LED light showing the channel status.



Model	ET1216	ET1316
Specification	Description	Description
Data transmission medium	S-Bus	S-Bus
Signal type	NPN	PNP
Signal range	Input channel: conforming to 1ec61131-2typel/3 Output channel: conforming to aiEC 61131-2	Input channel: conforming to 1ec61131-2typel/3 Output channel: conforming to aiEC 61131-2
Number of channels	16	16
Load type	Ohm, inductance, lamp load	Ohm, inductance, lamp load
Output current	Max0.5A (single channel)	Max0.5A (single channel)
Reverse potential protection	Yes	Yes
Breakthrough capability	< 100 mJ per channel	< 100 mJ per channel
Configuration	No need to set an address.	No need to set an address.
Operating/Storage temperature	-20...+55 °C/-40...+85 °C	-20...+55 °C/-40...+85 °C
Relative humidity	95% (no condensation)	95% (no condensation)
Protection class	IP 20	IP 20
Dimensions (width × height × depth)	23mm × 112mm × 95mm (depth with lug 110mm)	23mm × 112mm × 95mm (depth with lug 110mm)



## ET9000 Terminal Cover

Specification	Description
Special purpose	Terminal cover for IOPin protection
Operating/Storage temperature	-20...+55 °C/-40...+85 °C
Relative humidity	95% (no condensation)
Protection class	IP 20
Dimensions (width × height × depth)	12mm × 112mm × 95mm