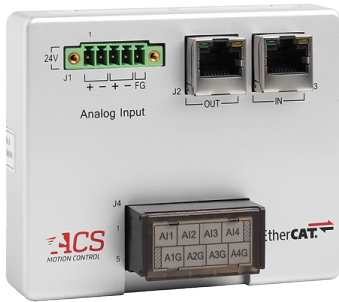
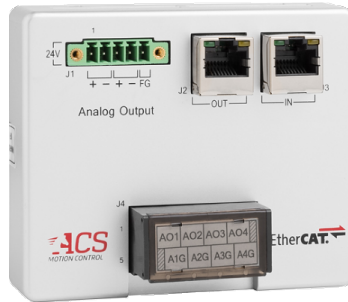


# IOM<sub>PS</sub>



Analog Input  
EA0400V0



Analog Output  
EA0004V0



Digital In/Out  
ED1616N0  
ED3232N0

## EtherCAT<sup>®</sup> I/O Modules

- > Powerful digital and analog I/O modules for EtherCAT network
- > Up to 32 inputs and 32 outputs
- > Compact and cost effective
- > Easy to use

The IOM<sub>PS</sub> is a line of EtherCAT digital and analog I/O modules in an economical and compact design, with up to 32 inputs and 32 outputs with minimal power dissipation.

The IOM<sub>PS</sub> enables secure connection of plug connectors using insulation displacement contact thus significantly simplifying the wiring of many I/Os.

Note: IOM<sub>PS</sub> modules are compatible with ACS's SPiiPlus ADK Suite v2.40 and later.

## Specifications

	EA0004V0	EA0400V0	ED1616N0	ED3232N0
Number of Analog Inputs and Outputs	4 Outputs	4 Inputs		
Number of Digital Inputs and Outputs			16 Inputs 16 Outputs	32 Inputs 32 Outputs
Power Supply [Vdc] (Nominal)	24 ±10%	24 ±10%	24 ±10%	24 ±10%
Input Current without load [mA]	67	78	45	45
Logic 1 (high) voltage [Vdc]			8 to 26	8 to 26
Logic 0 (low) voltage [Vdc]			0 ~ 5	0 ~ 5
Analog In / Out range [V]	-10 ~ +10	-10 ~ +10		
Output current per channel [mA]			160 (short-circuit-proof)	160 (short-circuit-proof)
Total current per module [A]			Up to 2	Up to 2
Resolution [bit]	16	16		
Type	Single-ended	Single-ended	Sink (NPN)	Sink (NPN)
Conversion time [µs]	~500	~500		
Measuring error (relative to full scale value)	±0.3%	±0.3%		
Electrical isolation [Vrms] (EtherCAT/field potential)	500	500	500	500
Input filter		~5kHz (Second-order antialiasing analog filter)	~10µs	~10µs
Short circuit current [A]	~1	~1	~1	~1
Reverse voltage protection	Yes	Yes	Yes	Yes
Connectors				
Power	5 Pin (Vendor: Dinkle ECH381VM-05P)	5 Pin (Vendor: Dinkle ECH381VM-05P)	5 Pin (Vendor: Dinkle ECH381VM-05P)	5 Pin (Vendor: Dinkle ECH381VM-05P)
EtherCAT	RJ45 (IN, OUT)	RJ45 (IN, OUT)	RJ45 (IN, OUT)	RJ45 (IN, OUT)
Digital/Analog I/O	Terminal Block	Terminal Block	40Pin (Vendor: Hirose HIF3BA-40PA-2.54DSA)	40Pin (Vendor: Hirose HIF3BA-40PA-2.54DSA)
Environment				
Temperature range				
Operating	0 to +50°C	0 to +50°C	0 to +50°C	0 to +50°C
Storage/Transportation	-25 to +70°C	-25 to +70°C	-25 to +70°C	-25 to +70°C
Humidity (Non-condensing)				
Operating	35% to 85%	35% to 85%	35% to 85%	35% to 85%
Storage/Transportation	5% to 95%	5% to 95%	5% to 95% C	5% to 95%
Weight [gram]	199	197	193	350
Dimensions [mm <sup>3</sup> ]	100 x 97 x 40	100 x 97 x 40	100 x 97 x 43	100 x 97 x 55
Standards	CE	CE	CE	CE

## Ordering Part Numbers

Description	Part Number	Remark
Analog Output 4	IOMps-EA0004V0	
Analog Input 4	IOMps-EA0400V0	
Digital I/O 16/16	IOMps-ED1616N0	NPN sink
Digital I/O 32/32	IOMps-ED3232N0	NPN sink

### Certifications

CE: Yes  
EMC: EN 61326-1