



VIA MAESTRI DEL
LAVORO,30
(ZONA INDUSTRIALE)
56021 CASCINA (PI)
ITALY

CAPITALE SOCIALE
100.000,00 €

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BRDGETH01A

BRDGETH01A-1

CONNECTION GATEWAY TO SERVO DRIVER VIA ANALOG INTERFACE

Reduced Data sheet

Version: 1

Date: 10.02.2026

Overview



Needed to connect 6 servo drivers with Analog interface and feedback via Encoder with TTL and SSI interface

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Part Number

Code

Code	Description	IO Interfaces
BRDGETH01A	Bridge EtherCAT MR 64kB	32 DI 32 DO 6 AO 6 ENC In 4 AI 4 AO 1 Count 6 FI 4 FO

Product status

Item	Value
Status	Obsolete: producible but no changes
In production from:	Jan 2013

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Technical data summary

Analog Out put Resources

Parameter	Value / Description
Number of Axes	6
Output Voltage range	-10 .. 10 V dc
Output Tolerance	+/- 1%
Output Voltage settling time	1 ms
Resolution	15 bit + sign (65536 increments) [LSB value = 0.3 mV]
Digital range	-32768 .. 32767
Protection	Short circuit

Encoder Resources

Parameter	Value / Description
Number of controllable axes	6
Code Format	SSI
Encoder Resolution	Up to 32 bits
Max Input Frequency	2 MHz (Depending from cable length: 2 MHz up to 10mt, 1 MHz up to 50mt, 200 KHz up to 100mt.)
Physical layer	Complying with EIA-485 standard (Differential)
Max Cable length	100 meters

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Encoder Supply	5 Volt (total 500mA Max)
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Power supply	
Nominal input voltage	24Vdc
Electrical protections	Reverse polarity Overload Overvoltage
Fieldbus	
Number of Ports	2 (1 x Input EtherCAT, 1 x Exit EtherCAT)
Protocols	EtherCAT
Bus connector type	RJ45 shielded
Max cable length	100mt
Supported Services	CoE (CAN over EtherCAT), FoE (File over EtherCAT), VoE (Vendor Specific over EtherCAT) DC or Free Run
Compatibility	Master EtherCAT ISAC
Temp. Operational/Storage and Humidity	
Temp. operative	0 ... 50 °C
Temp. stockage	-10 ... 70 °C
Humidity	Fino a 90% senza condensa
Protection class	IP20
Interfaces I/O	
Digital inputs	N. 32 opto-isolated digital inputs di tipo PNP
Digital outputs	N. 32 digital outputs up to 2A Mosfet-type PNP
Fast digital inputs	N.8 PNP type multifunction channels (latch, counter, handwheel, digital inputs)
Fast digital outputs	N.2 multifunction channels type PNP (digital outputs, raster outputs) N.6 PNP type digital channels
Analog Inputs	N.4 channels -10V/+10V 12bit resolution
Analog outputs	N.4 channels -10V/+10V 12bit resolution
Flyer Entry	N.1 Channel
Watchdog Hardware Enable	N.O. (Normally Open) Relay Clean Contact 1A/30V
Axis interface	
Pulse Outputs-Direction	- Clean-direction outputs according to the RS-422 standard. - Max pulse frequency 1MHz 6 channels
Incremental encoder inputs	- Differential Square WaveTTL - Max pulse frequency 1MHz 6 Channel
Diagnostics Hardware	



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Alimentazione	LED blu
Stato	LED green
Errore	LED red
Installation e Weight	
Installation	Guide DIN 35mm standard EN 60715
Weight	900 gr.

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Certifications

Certification	Description
CE	EU Declaration of Conformity: EMC Directive 2014/30/UE Standards used: EN 61000-6-2:2019 EN 61000-6-4:2019
RoHS	Declaration of Conformity: RoHS Directive 2011/65/EU
Origin	Italy
CRA	Yes (pending)



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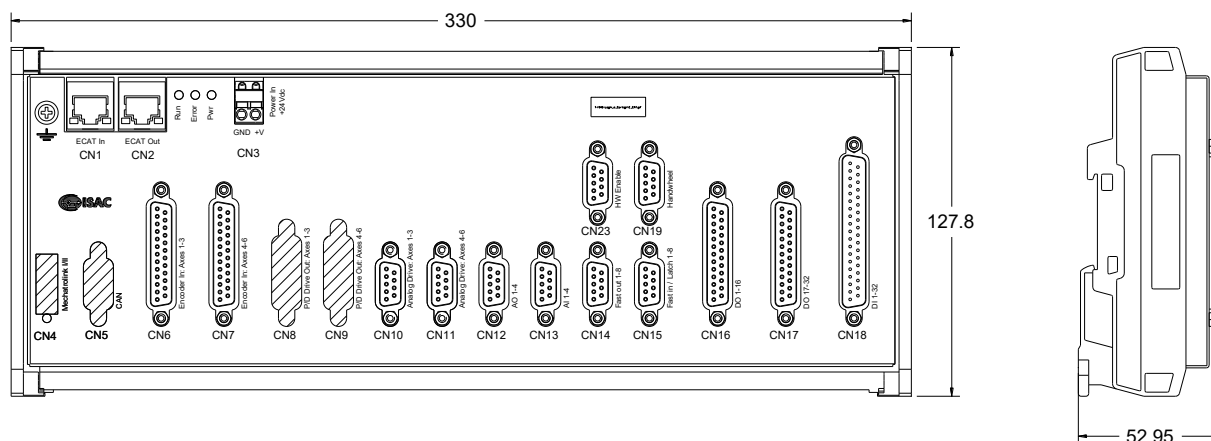
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Layout and dimension

Height	128 mm
Width	330 mm
Depth	50 mm



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Reference documents

Full data sheet: BRDGETHCxx