



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



I/O module - IB ST 24 BAI 8/EF - 2700842

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



INTERBUS-ST analog input module, 8 inputs, 0 - 5 V, 0 - 10 V, 0 - 25 V, 0 - 50 V, 0 - 20 mA, 4 - 20 mA, 0 - 40 mA, 0 - 60 mA, IP20 protection, consisting of: terminal part with screw connection and module electronics

Product Description

The module is designed for use within an ST station. It is used to acquire analog voltage and current signals.

Why buy this product

- 8 analog inputs for the connection of either voltage or current signals
- Connection of sensors in 2-wire technology

Key Commercial Data

Packing unit	1 STK
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
-------------------------	---

Dimensions

Width	118 mm
Height	116 mm
Depth	117 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	80 kPa ... 106 kPa (up to 2000 m above sea level)

I/O module - IB ST 24 BAI 8/EF - 2700842

Technical data

Ambient conditions

Degree of protection	IP20
----------------------	------

General

Mounting type	DIN rail mounting
Net weight	591.5 g
Operating mode	Process data mode with 4 words
Diagnostics messages	Failure of the internal I/O supply I/O error message sent to the bus coupler
	F1 fuse failure I/O error message sent to the bus coupler
	I/O supply failure I/O error message sent to the bus coupler

Interfaces

Designation	ST local bus
Connection method	ST local bus connector
Transmission speed	500 kBit/s
Transmission physics	Copper

Power supply for module electronics

Connection method	ST local bus connector
Designation	Communications power
Supply voltage	9 V DC (from the ST local bus)
Current consumption	typ. 54 mA
Power consumption	typ. 0.5 W
Designation	U_s
Voltage	24 V DC
Nominal supply voltage range	19.5 V DC ... 30.2 V DC (including all tolerances, including ripple)

Analog inputs

Input name	Analog inputs
Number of inputs	max. 8 (Voltage or current)
Connection method	2, 3-conductor
A/D conversion time	max. 10 μ s (per channel)
Measuring principle	Successive approximation
Measured value representation	8 bit straight binary (default) or 12 bit two's complement (can be parameterized)
Number of inputs	8 (Voltage inputs)
Voltage input signal	0 V ... 10 V
	0 V ... 5 V
	0 V ... 25 V
	0 V ... 50 V
Input resistance of voltage input	150 k Ω

I/O module - IB ST 24 BAI 8/EF - 2700842

Technical data

Analog inputs

Number of inputs	8 (Current inputs)
Current input signal	4 mA ... 20 mA
	0 mA ... 20 mA
	0 mA ... 40 mA
	0 mA ... 60 mA (rms)
	0 mA ... 100 mA (peak)
Input resistance current input	77 Ω

Electrical isolation

Test section	Bus/Inputs 500 V AC 50 Hz 1 min.
	Supply voltage/inputs 500 V AC 50 Hz 1 min.
	Supply voltage/Ground conductor 500 V AC 50 Hz 1 min.
	I/O voltage/Ground conductor 500 V AC 50 Hz 1 min.

Standards and Regulations

Protection class	III, IEC 61140, EN 61140, VDE 0140-1
------------------	--------------------------------------

Classifications

eCl@ss

eCl@ss 4.0	27250303
eCl@ss 4.1	27250303
eCl@ss 5.0	27250303
eCl@ss 5.1	27242601
eCl@ss 6.0	27242601
eCl@ss 7.0	27242601
eCl@ss 8.0	27242601
eCl@ss 9.0	27242601

ETIM

ETIM 3.0	EC001596
ETIM 4.0	EC001596
ETIM 5.0	EC001596

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404

I/O module - IB ST 24 BAI 8/EF - 2700842

Classifications

UNSPSC

UNSPSC 13.2	43201404
-------------	----------

Accessories

Accessories

Bridge

Jumper - IB ST LBC - 2836492



Spare local bus cable, for INTERBUS-ST modules

Insertion bridge - EB 84 IB ST BU - 2836269



Insertion bridges, divisible, isolated comb spine, color blue, 84-pos.

Insertion bridge - EB 84 IB ST RD - 2836272



Insertion bridges, divisible, isolated comb spine, color red, 84-pos.

Fuse

Fuse - IBS TR5 0,2AT - 2753452



Replacement fuse, for INTERBUS-ST modules

I/O module - IB ST 24 BAI 8/EF - 2700842

Accessories

Fuse - IBS TR5 0,4AT - 2753478



Replacement fuse, for INTERBUS-ST modules

Spare parts

Replacement electronics module - IB STME 24 BAI 8/EF - 2701956



INTERBUS-ST analog input module, 8 inputs, 0 - 5 V, 0 - 10 V, 0 - 25 V, 0 - 50 V, 0 - 20 mA, 4 - 20 mA, 0 - 40 mA, 0 - 60 mA, degree of protection IP20, comprising: Module electronics only
