Product data sheet

Specifications



To be discontinued

analog input kit, Modicon STB, standard, +/- 10V, 4 I, 15bits with sign

STBAVI0300K

To be discontinued on: Dec 1, 2027

To be end-of-service on: Dec 31, 2035

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Modicon STB distributed I/O solution
Product or Component Type	Standard analog input kit
Kit composition	STBAVI0300 module STBXTS1100, 6-terminal screw type connector STBXTS2100, 6-terminal spring clamp connector STBXBA1000 base
Product Compatibility	Mounting base STBXBA1000 Power distribution module STBPDT3100/3105
Analogue input number	4
Type of filter	Single low pass input filter 25 Hz
Analogue output number	0

Complementary

Absolute maximum input	50 V
Cold swapping	Yes
Fallback status	State 0 basic NIMs User configurable standard NIMs
Data format	IEC 61131-2 EN 61131-2
Integral linearity	+/- 0.2 %FS
Differential linearity	Monotonic
Maximum supply current for sensors	100 mA per input channels
Absolute accuracy error	+/- 0.75 % of full scale 25 °C
Addressing requirement	2 input words
Supply	Power distribution module
Analogue input type	Voltage +/- 10 V Voltage +/- 5 V Voltage 0...10 V Voltage 0...5 V Voltage 1...5 V
Analogue input resolution	15 bits + sign
Input impedance	400 kOhm
Input protection type	Protected against short-circuit

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Temperature drift	+/-0.01 %/°C
Typical current consumption	90 mA 5 V DC for logic bus
Isolation between channels and bus	1500 V for 1 minute
Hot swapping fallback	Yes for standard NIMs
Local signalling	1 LED green module status (RDY) 1 LED red module error (ERR)
Height	0.7 in (18.4 mm)
Width	5.05 in (128.3 mm)
Depth	2.8 in (70 mm)
Overvoltage category	II

Environment

IP Degree of Protection	IP20
Marking	CE
Product certifications	FM Class 1 Division 2 UL CSA ATEX Cat 3G C-tick
Ambient air temperature for operation	-13…158 °F (-25…70 °C) without derating)
Ambient air temperature for storage	-40…185 °F (-40…85 °C) without derating
Relative humidity	95 % 140 °F (60 °C) without condensation
Operating altitude	6561.68 ft (2000 m)
Pollution degree	2
Vibration resistance	+/-0.35 mm 10…58 Hz) 3 gn 58…150 Hz) on 35 mm DIN rail 5 gn 58…150 Hz) on 35 mm DIN rail
Shock resistance	30 gn 11 msIEC 88 reference 2-27

Ordering and shipping details

Category	US1PC3218215
Discount Schedule	PC32
GTIN	3595863948707
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	0.866 in (2.200 cm)
Package 1 Width	3.150 in (8.000 cm)
Package 1 Length	5.197 in (13.200 cm)
Package weight(Lbs)	5.220 oz (148.000 g)
Unit Type of Package 2	S02

Number of Units in Package 2	28
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	10.296 lb(US) (4.670 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**29 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**8 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**21 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**No**
SCIP Number	**6830dd70-e4bc-47df-85c7-e41f888576f4**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**

Use Longer

Lifetime extension

Repair	**No**

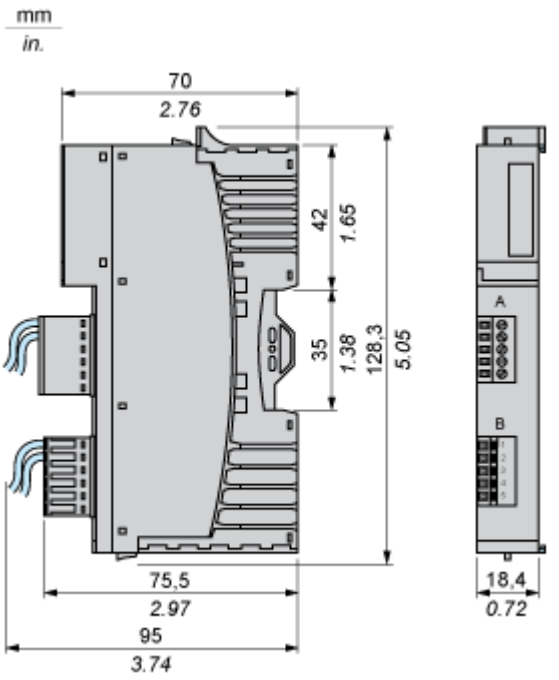
Use Again

Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	**No**

Dimensions Drawings

Dimensions

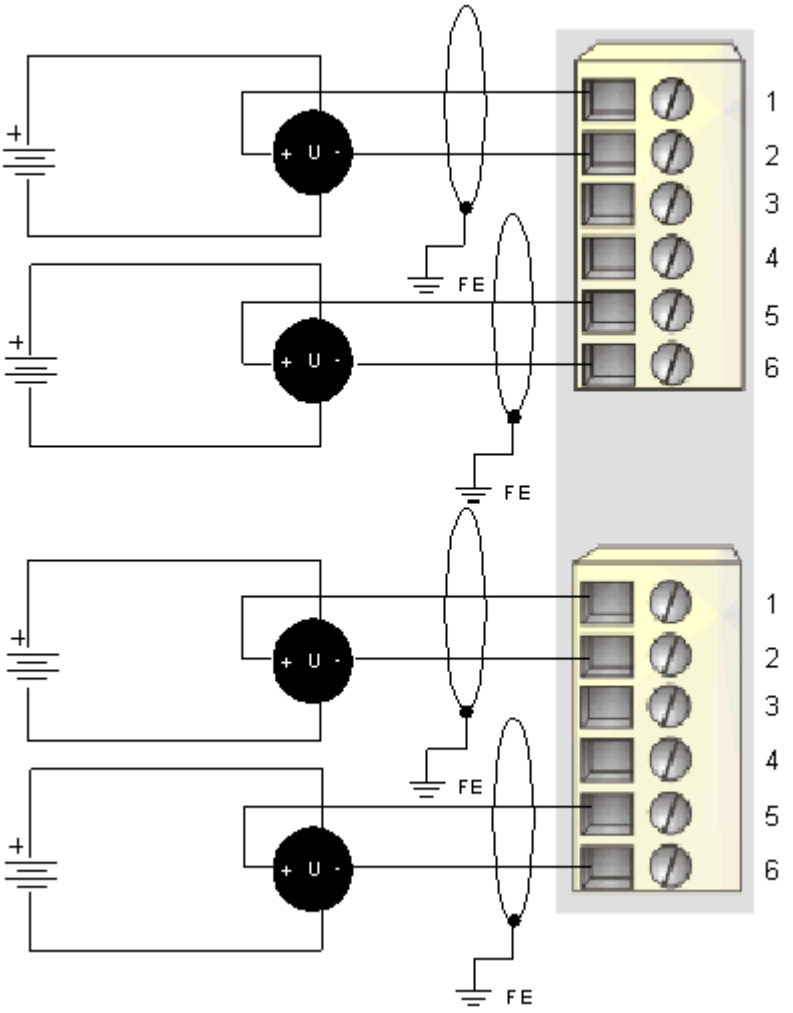


Connections and Schema

Wiring Diagram

Example

4 isolated analog sensors, external 24 VDC power supplies



Pin	Top Connections	Bottom Connections
1	voltage in 1+	voltage in 3+
2	voltage in 1 -	voltage in 3-
3	no connection	no connection
4	no connection	no connection
5	voltage in 2+	voltage in 4+
6	voltage in 2-	voltage in 4-