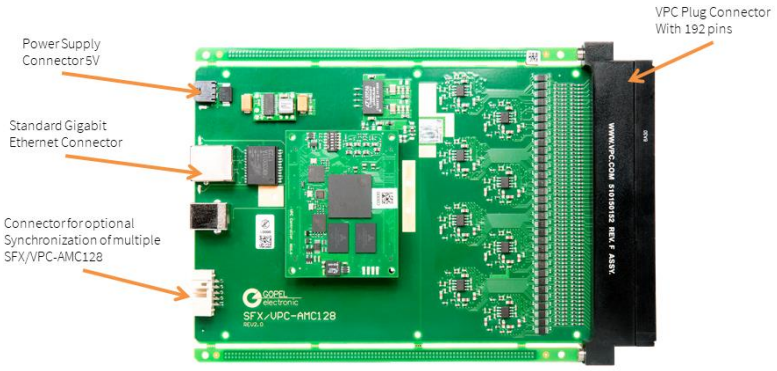
Data Sheet

SFX/VPC-AMC128(H/L)

Art.-No.: RPD-760 (L)
RPD-761 (H)



Key Facts:

- Test extension hardware for measuring 128 analogue channels
- Based on 8 ADC devices, simultaneously converting 2 channels each
- Perfect extension for testing of 16 UUTs in parallel
- 2 variants:
  L – Low Voltage
  measurement range: +/-2,5V, +/-5V, +/-10V,
  H – High Voltage
  measurement range: +/-13V, +/-26V, +/-52V

VPC Product Line Description:

The SFX/VPC-AMC128 (Analog Measurement Card) is test extension hardware specifically for integration into RAPIDO test systems, providing measurement functionality for 128 analogue channels. The SFX/VPC-AMC128 is based on 8 separate ADC devices, which can simultaneously convert 2 channels each and test up to 16 UUTs in parallel. Furthermore, each channel can be configured and activated independently within its measurement range, allowing various voltage levels to be easily tested and measured using specific CASLAN extensions. The SFX/VPC-AMC128 supports 3 measurement ranges, each of which can be adjusted individually for each channel, depending on the respective variant (L – Low Voltage Variant, measurement range: +/-2,5V, +/-5V, +/-10V, H – High Voltage Variant, measurement range: +/-13V, +/-26V, +/-52V). With this, both low-voltage applications and automotive applications with higher voltages (e.g. 48V) can be ideally supported. Each channel has an input resistance of >1MOhm, in order to avoid strain on the UUT and distortion of the measured values.

The SFX/VPC-AMC128 is accessed over a standard Gigabit Ethernet interface and can easily be integrated into other test systems. The SFX/VPC-AMC128 is a fully integrated extension in the Embedded JTAG Solutions software SYSTEM CASCON.

Product Description:

With the SFX/VPC-AMC128, a high number of analogue voltages can be tested and measured quickly and easily. Through the configurable measurement ranges for each channel, various voltage ranges can be measured with high accuracy. With the 8 separate ADC converters, up to 16 channels can be converted simultaneously, which is ideal for testing in parallel, e.g. with 16 UUTs. The card is actuated by using CASLAN extensions that can be easily integrated into each test sequence. The SFX/VPC-AMC128 can be used both in RAPIDO test systems and other user-specific test systems, which allows operation independent of the Embedded JTAG Solutions software SYSTEM CASCON. The configuration of the SFX/VPC-AMC128 can also be done over a web interface with any browser. As a result, remote access and worldwide troubleshooting is possible.

Technical Parameters:

Power supply		5V DC
Dimensions		210mm x 142mm x 15mm (incl. VPC connector)
Cooling		Passive (no fan)
Control Interfaces		GBit LAN (connector RJ-45), 10 pin Synchronization Interface
Max. number of analog channels		128 independent channels (16 with simultaneously sampling at the same time – for parallel UUT testing usable)
Input voltage ranges	L type	I: +/- 2,5V II: +/- 5V III: +/- 10V
	H type	I: +/- 13V II: +/- 26V III: +/- 52V
Input resistance		>1 MOhm
Absolute maximum input voltage	L type	+/- 20V
	H type	+/- 60V
Typical zero accuracy	L type	I/II/II: +/- 1 mV
Typical zero accuracy	H type	I: +/- 1,5 mV II: +/- 1 mV III: +/- 1,5 mV
Maximum zero accuracy	L type	I: +/- 1,5 mV II: +/- 2 mV III: +/- 3 mV
Maximum zero accuracy	H type	I: +/- 6 mV II: +/- 8 mV III: +/-13 mV
Typical full scale accuracy	L type	I: +/- 1 mV II: +/- 1 mV III: +/- 2 mV
Typical full scale accuracy	H type	I: +/- 2,5 mV II: +/- 4 mV III: +/- 8 mV
Maximum full scale accuracy	L type	I: +/- 2,5 mV II: +/- 5 mV III: +/- 10 mV
Maximum full scale accuracy	H type	I: +/- 13 mV II: +/- 25 mV III: +/- 50 mV
UUT Connector		VPC connector 192 pins (510150152)
Maximal sample rate		1 MSPS for up to 16 channels (2 channels per ADC)
ADC resolution		16 Bit
Analog Input Filter Bandwidth	-3dB	I: 33 kHz II: 33 kHz III: 39 kHz
	-0,1dB	I/II/III: 5,5 kHz
Additional resources for UUT or user (reserved for future use)		1 High accuracy voltage reference on VPC pin 34D (2,048V) 1 Synchronization interface connector (usable with SFX/VPC-TPC128 and SFX/VPC-AMC128) API access without CASCON to support 3d party software

Contact Details:

Our Locations	Email	Phone
Germany (Head Quarters)	sales@goepel.com	+49 (0) 3641 · 68 960
Hong Kong	sales@goepel.asia	+852 (0) 6572 · 88 17
India	sales@goepel.in	+91 (0) 80 · 65 69 56 01
United Kingdom	sales@goepel.co.uk	+44 (0) 1223 · 85 82 98
USA	sales@goepelusa.com	+1 (512) 782 · 25 00

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