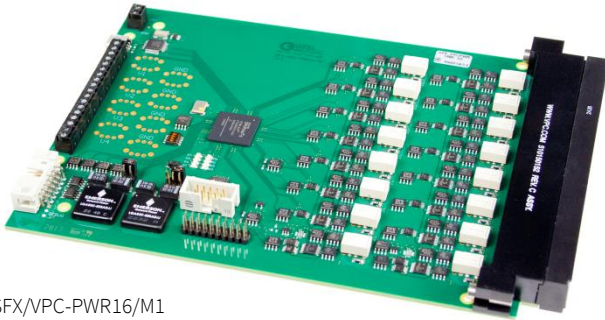


SFX/VPC-PWR16/M1 VPC-Solution: SCANFLEX® Power module

Art.-No.: RPD-740



SFX/VPC-PWR16/M1

Key Facts:

- Power distributing, control and monitoring unit for up to 16 UUTs in panel test
- Compact solution for test system integration
- Virginia Panel (VPC) interface connector
- Controllable via USB or SCANFLEX
- Extendable with other VPC-solutions (TAP transceiver, MPP, etc.)

VPC Product Line Description:

In general the Gang Test Module Kit belongs to the SCANFLEX product line and provides a complete solution for the parallel test or programming of up to 16 units with one system controller. It consists of three interconnected module types – a TAP transceiver (TAP16), a multipurpose parallel I/O unit (MPP) and a power management unit (PWR16). For easy system integration, all modules feature an on-board Mass Interconnect Interface from Virginia Panel and are controlled by a central controller. With multiple SYSTEM CASCON™ setups hardware is scalable so that production systems can be configured to N sites.

The Gang Test Module Kit supports all technologies for Embedded System Access (ESA). In addition to boundary scan, these are Processor Emulation and Chip embedded Instruments. These methods enable the execution of design validations, hardware debugging, production tests such as dynamic and functional tests as well as programming of MCU, Flash and PLD without probe and nail utilization (non-intrusive).

The Gang Test Module Kit was specifically developed for so called Gang applications. This method means the parallel test or programming of several units. The new kits help users to configure their individual Gang testers, consequently to significantly increase production throughput and benefit from all ESA technology advantages in mass production. Various test and programming strategies based on the ESA platform SYSTEM CASCON can be freely combined.

Particularly advantageous is the on-board Mass Interconnect Interface from VPC, because it represents a standardized test fixture solution.

Product Description:

The SFX/VPC-PWR16/M1 enables power distributing, monitoring and control for up to 16 sites with multiple voltages in parallel mode. The power supply itself is not part of the solution. It can be any RS232/RS485 controlled device, preferable HAMEG line which is connected to the 4 input channels of the power module.

Each output site can be individually programmed in many parameters (voltage, current, delays ...). One highlight is the separate parameter adjustment during power-up and normal mode. This ensures a safe voltage supply incl. U/I monitoring of each site and controlled shut-down in fault cases. A jumper controlled debug bridge disables all settings for setup or debug purposes.

The power module is part of the SCANFLEX line which is software controlled by SYSTEM CASCON and can be freely combined with other SCANFLEX products.

Technical Parameters:

Functional	
Purposes	Power distributing, control and monitoring
Power sources	Any RS232/RS485 controllable power supply (i.e. Hameg HMP2030)
Combinations with VPC series	SFX/VPC-TAP16/M1, SFX/VPC-MPP/M1
Product features	<ul style="list-style-type: none"> * Over current detection on every UUT with automatic switch off is possible * Control via SFX/LS Power Bus when using an SFX/VPC-TAP16/M1 * Control via USB when using other SFX transceivers * Up to eight (different) modules are cascadable * Safety shutdown, debug bridge, selftest
Configuration	
Input/output power rails	4 / 32
Possible configurations: Number of UUTs → max. usable power rails	up to 8 UUTs → 4 power rails per UUT up to 16 UUTs → 2 power rails per UUT
Electrical	
Operating voltage/current	5.0V / 2A
Input max. voltage/current per rail (all UUTs)	+/- 20V / 16A
Output max. voltage/current per rail (one UUT)	+/- 20V / 2A
Accuracy of voltage measurement	+/- 40mV
Accuracy of current measurement	+/- 8mA
Mechanical	
Power supply	2-pin male connector of type 43650-0200 from Molex or Screw jack of type CTB3051/2BK from CAMDEN
USB-connector	mini USB
Power rail input interface, if max. current < 10A	CTB3051/2BK
Power rail input interface, if max. current > 10A	Power bug 6 pin SVA 214788 from Erni or Screw/plug connector 60800-493 from Schroff
Power rail output interface	192-pin VPC connector, type 510150152
SFX / LS Power Interface	14-pin male connector, SEK18-14 RA in 2.54mm pitch for connection to SFX/VPC-TAP16/M1 modules
Module dimensions (L x W x H):	205mm x 142mm x 20mm (8.07" x 5.59" x 0.79")
Software	
Min. CASCON release	4.6.3
Min. HW driver version (SFX/VPC-TAP16/M1)	3.55
Min. controller version (SFX/VPC-TAP16/M1)	2.55
Environment	
Storage temperature	-10 - 80°C
Operating temperature	0 - 35°C
Relative storage humidity, not condensing	10 - 90%
Relative operating humidity, not condensing	20 - 85%

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