PA01USB-00A

[Single Port Smart Power Program/Analysis Card]

Key Features:

- Input I/O monitoring (programmable)
- Pulse generator (programmable)
- Power on/off control (manual mode and programmable)
- Reset loop control (programmable)
- GPIO (to monitor and control)
- Voltage and current monitoring
- Control software (programming and data analysis)

Note: image above may show a varied configuration or optional parts.

Specifications

Product SKUs	
PA01USB-00A	Single port smart power analysis module

Form Factor
FF PCI card size

Processor (3Port PMU)
PMU: ARM core

Dimensions	
Width	• 150mm
Height	• 25mm
Depth	• 100mm
Gross Weight	• 100gram
Color	• Card: Green

Software
• Windows based control/analysis software
• Programmer guide

Package
• Analyzer board
• USB cable
• Output power cable
• jumpers

Power Management Unit (PMU)

- 4 port power control unit: individual port power on/off and LED control.
- Circuitry for auto drive insertion detection for writing automated control SW
- Program controlled LED (RED/YELLOW/GREEN) and Power On/Off

Input	• 15v to 12v
3.3v (out)	• 4.5 Amp
5v (out)	• 4.5 Amp
12v (out)	• 5 Amp

Basic command set

'v'	Read Voltages (all 3 voltages)
'1'	Power on
'0'	Power off
'T'	Trigger HI
'U'	Trigger LOW
'P'	Xport On
'Q'	Xport Off
'A'	Read current (for all 3 voltages)
'a'	Start continuous current read mode
'b'	Stop continuous current read mode
'E'	Tx enable [HI]
'D'	Tx disable [LOW]
'I'	Check Rx level (HI or LOW)
'Z'	Calibrate current to ZERO
'<'	Current limit + 100mA
'>'	Current limit – 100mA
'='	Save current limit
'J'	Send '1' to outport1
'j'	Send '0' to outport1
'K'	Send '1' to outport2
'k'	Send '0' to outport2
'L'	Send '1' to outport3
'l'	Send '0' to outport3
'M'	Send '1' to outport4
'm'	Send '0' to outport5
'5'	Read status1 (1 or 0)
'6'	Read status2 (1 or 0)
'7'	Read status3 (1 or 0)
'8'	Read status4 (1 or 0)
'C' / 'c'	3.3v On / Off
'G' / 'g'	5v On / Off
'N' / 'n'	12v On / Off

Operating temperature
Max: 70C

Other

Board impedance	85ohm