



Models:

PDUI01C-U – RS-232 Smart Power Port, United States

PDUI01C-E – RS-232 Smart Power Port, European Union

PDUI01C-I – RS-232 Smart Power Port, Israel

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INTRODUCTION

Introduction

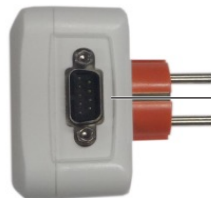
HighSec Labs' Smart Power Port uses an RS-232 serial interface to selectively provide power to any connected device. This allows power to be managed in multiple ways:

- Turn devices on/off manually with a serial command
- Restart devices manually with a serial command
- Restart devices automatically due to inactivity with the serial interface



Power Output Socket: This socket is controlled over the serial interface

Power Input Plug: Input power for this power socket

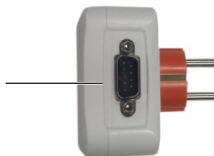


Serial interface: RS232 communication interface

INSTALLATION

Installation

Attach the included serial cable with a DB9 connector and configure the serial interface of the connected device to send a keepalive signal to the Smart Power Port to indicate the connection is active. The Smart Power Port can be configured to automatically interrupt power to inactive devices that do not send a keepalive signal.



The serial interface of the monitored device must be configured for the following parameters for first use:

9600 Baud, Bits: 8, No parity, Stop Bits: 1, No flow control

The baudrate can be changed using the serial command:

AT+SPPEED=baudrate, where baudrate can be 9600, 19200, 57600 or 115200.

When the RS232 socket is powered on, the POWER/ACT LED will blink shortly once or several times. This corresponds to the baud rate:

1 flash = 9600 bauds

4 flashes = 115200 bauds

Restart the device.

OPERATION

Basic control commands

Controlling output power by commands

Commands that control the Smart Power Port over a serial RS232 interface must have the following syntax:

Command	Description	Answer
AT+TURNON	Turn power output socket on. Applicable only if the watchdog feature is OFF.	OK
AT+TURNOFF	Turn power output socket off. Applicable only if the watchdog feature is OFF.	OK
AT+RESET	Interrupt power output for 10 seconds. Applicable any time.	OK
AT+TURN?	Request for power output status	ON OFF

Watchdog feature

The watchdog feature automatically cuts power to inactive devices by monitoring keepalive data. When active, the watchdog feature begins to monitor keepalive data 6 minutes after the Smart Power Port is powered on. Once it begins monitoring, if a device does not send keepalive data for 2 minutes, the Smart Power Port will interrupt power to that device for 10 seconds.

The watchdog feature is typically configured to OFF in SoundSentry™ installations.

Command	Description	Answer
AT+WATCHDOGON	Turn on watchdog feature. The Smart Power Port monitors the serial interface for activity and provides power to devices unless it receives no keepalive data for 2 minutes.	OK
AT+WATCHDOGOFF	Turn off watchdog feature.	OK
AT+WATCHDOG?	Request for watchdog status	ON / OFF
AT+ECHOON	Turn on all echo messages.	OK
AT+ECHOOFF	Turn off all echo messages.	OK

OPERATION

Default values

Each new device is preconfigured with the following default parameters.

Parameter	Value
BAUDRATE	9600
WATCHDOG	OFF
ECHO	OFF

Firmware upgrade

Firmware upgrades can be performed only by support.

Power/ACT LED

The Power/ACT LED on the front of the Smart Power Port indicates its current status and data activity.

Power/ACT LED Behavior

LED IS ON AND GREEN

Power output is ON

LED IS ON AND RED

Power output is OFF

**LED IS ON AND FLASHING
GREEN/RED**

Power output is on, watchdog feature has not yet activated



POWER/ACT: Indicator of output power socket status and data activity

OPERATION

Technical Specifications

Model	PDUI01C-U (USA)	PDUI01C-E (EU)	PDUI01C-I (ISR)
POWER INPUT			
Mains Power	90/250V AC / 50-60Hz		
POWER OUTPUT			
Output Socket Load	15A Max	16A Max	16A Max
PHYSICAL			
Dimensions	140x65x55mm / 5.5x2.5x1.7in		
Mass	0.3kg / 1.5lb		
Regional Socket Compatibility	Type B: NEMA 5-15	Type F: CEE 7/4 Germany: "Schuko" Earthed	Type H: SI 32
Data Transfer Port	DB9 Male Port		
FUNCTIONAL			
Command Protocol	RS-232		
ENVIRONMENTAL			
Operating Temperature	0°C to 50° C / 32°F to 122° F		
Storage Temperature	-20°C to 60° C / -4°F to 140° F		
Humidity	0%-80% RH, non-condensing		
GENERAL INFORMATION			
Product Lifecycle	10 Years		
Product Warranty	2 Years		

Maintenance and security instructions

This product is designed for use in indoor environments such as a meeting room or an office. Avoid using in a humid, wet, or chemically aggressive environment. The product is not designed for application in a heavy industry environment. Avoid shaking, bumping, or dropping the product.

Improper use, unauthorized disassembling, or additional manual changes on the device can terminate the warranty. The device does not provide safe disconnection from the power source; it only performs functional switching.

OPERATION

Ordering

The RS-232 Smart Power Port is available in the following models:

United States: PDUI01C-U

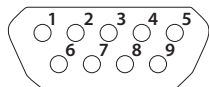
European Union: PDUI01C-E

Israel: PDUI01C-I

APPENDIX A

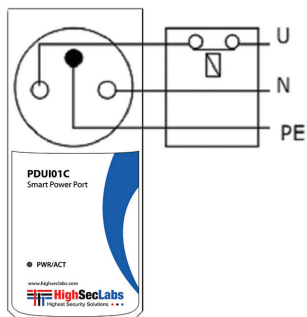
Appendix A

Serial interface pinout



2 - TX, 3 - RX, 5 - GND

Output power socket switching scheme



Highseclabs.com

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