

PortBloque S

Serial Firewall with DPI on Modbus RTU/ASCII

PortBloque S is a specialized firewall that protects Modbus devices from serial attacks. It provides Modbus RTU/ASCII deep packet inspection (DPI), blocking everything that's harmful or unwanted. The simple web interface makes setup easy. Operators can control Modbus traffic by slave IDs and function codes, and block a command that repeats too soon. Additionally, operators can define a permissible range of slave registers and values to prevent malicious memory access.



- DPI on Modbus RTU/ASCII
- Highly customizable
- 2 DB9 serial (RS-232/422/485)
- 1 RJ-45 Ethernet
- Small size approx: 4 x 3 x 1 in

Technical Specifications

Firewall	<p>Deep packet inspection on Modbus RTU/ASCII:</p> <ul style="list-style-type: none"> - Device IDs: single or group; including broadcast ID - Function codes: 1-8, 11, 12, 15-17, 20-24, 43 user-defined codes (4 total) - Registers - Values <p>Bidirectional filtering Safeguard time between repeated commands</p>
Serial Protocols	<p>Modbus RTU Modbus ASCII</p>
Interfaces	<p>Master: DB9 female (RS-232/422/485 software selectable) Slave: DB9 male (RS-232/422/485 software selectable) Ethernet: RJ45 (10/100BaseT)</p>
Serial Signals	<p>RS-232: Tx+, Rx+, RTS, CTS, DTR, DSR, DCD RS-485 2-wire: Data+, Data- RS-422 4-wire: Tx+, Tx-, Rx+, Rx-</p>
Serial Topologies	<p>Multi-drop (up to 31 slaves) Point-to-point</p>
Data Rate	300 to 115.2 Kbps (async)
Web	<p>Login-protected: superuser and user levels Dashboard firewall metrics</p>
Logging	Traffic and system (Syslog)
LED Indicators	Power, Link, Secure
Power	External 5VDC (2A) power supply
Physical	<p>Enclosure: 18 gauge steel Weight: 1 lb Size: 4.17 x 3.12 x 1.1 inches (10.59 x 7.92 x 2.79 cm)</p>
Operating Temperature	-40 to 75°C (-40 to 167°F)
Warranty	2 Years

Serial Modbus Security

- ▶ Blocks function codes, registers, and values that you have not permitted to specific slave devices.
- ▶ Blocks a command that repeats too soon to protect slave devices.

