Terafence
IoT Cyber Security

Terafence Bi-directional Gateway

Terafence is proud to offer a unique, secure, and innovative network security appliance – Terafence Bi-directional Gateway.

Terafence manufactures Cyber Security hardware products to allow security architects the freedom in protecting their networks as needed.

Terafence BSG is designed to provide a better-then-ever security by filtering LAN traffic via Terafence's propriety FPGA.

Terafence BSG allows network architects to define traffic patterns through the device with total assurance that any hacking attempts fail due to galvanic separation and super strong appliance architecture.

Terafence BSG utilizes 2 proprietary FPGA data diodes by Terafence to create an appliance that is protocol agnostic and yet extremely safe and secure. Only pre-defined traffic can pass through without allowing direct TCP/IP sessions between client and server filtered by hardware-based traffic filters. Optional Firewalls may add solution hardening.

Key Features:

- Total galvanic network separation
- Terafence proprietary hardware chip (FPGA)
- Totally transparent to network
- TCP/IP Protocol agnostic
- Full TCP/IP bi-directional protocols support
- Total control over passthrough LAN traffic
- Hardware-based Packet filtering and optional Firewalls at each device end
- Ability to determine session initiation direction (Client – Server)

Unit Security features:

- Hardened Linux operating system on integrated CPUs
- Core security hardware has no OS, no MAC/IP
- Secure unit access (HTTPS) to GUI with encryption keys

Technical Specification:

- 1Gbps data throughput
- Power - 12VDC/18Amp MAX 230 Watt
- Network Ports - 2xRG-45 CAT5E ports
- Desktop or Rackmount
- Operating temperature – (0) ~ (+60°C)
- In-door use only

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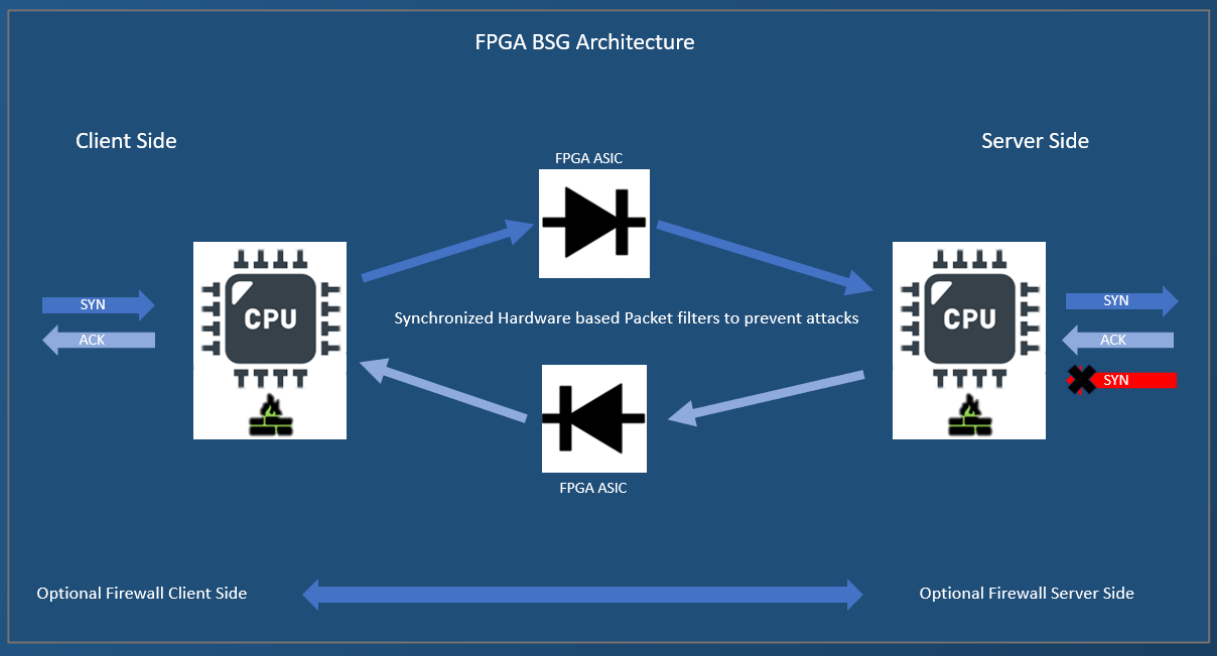
Solution Highlights:

- Total Galvanic, physical network separation, hardware based on Terafence's proprietary CHIP
- Solution includes two integral CPUs (Linux)
- Solution is invisible to network
- Simple, easy configuration using HTTPS GUI
- 1Gbps backplane
- Small footprint
- All-in-One solution, no additional HW/SW required
- No hidden costs
- Stand-alone unit, not interacting with external entities
- Simple configuration via secure HTTPS internal webservice GUI
- Hardware Packet filtering and optional Firewalls at each device end

Terafence BSG technical specification:

- Processor - Intel® i3/i5/i7/i9 CPU
- Memory – 8-32GB
- Network - 2 x Intel® 10/100/1000 Mbps
- Measurements: (1U) 44 x 430 x 353 mm
- Desktop, Rack Mount Mounting
- 0 ~ 60°C (-40 ~185°F) Operating Temperature
- -20 ~ 80°C (-40 ~185°F) Storage Temperature
- 10%-95%, 40°C non-condensing Relative Humidity
- CE & FCC Class B



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TERAFENCE COMPRISES
PROFESSIONALS TO MAKE IoT & NoT
SECURE FROM MALICIOUS ATTACKS

Terafence Ltd. specialises in the development of advanced firmware/microchip solution for cyber security connectivity and additional mechanical waves based solution to control medical implants and wearable devices. Established in 2015, Their patent pending TFence™ technology uniquely offers total protection from tampering or hacking IoT devices by completely blocking data entry – while maintaining data outflow and control. And relevant patent describing secure way to control implants and wearable based on ultra sound waves. Their pioneering company comprises seasoned professionals sharing a common goal – to make IoT and NoT safe and secure from malicious attacks.

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