

RF Switch



Key Features

- Real bi-directional isolation
- Programmability for predetermined disconnection of antenna feed
- Remotely accessible for immediate disconnection or connection of GNSS
- Physical disconnection response time <10ms
- GUI response time <1s
- Supports full L1 & L2 GNSS

Specifications

- Power supply 220V or 110V
- 50Ω nominal
- Connectors: SMA-F
- Size: 200(w)x145(d)x155(h) mm
- Operating temperature range: 0°C – 50°C
- Mounting: Rack mountable using industrial Cable Ties or wall mountable using screws
- Comm Port: RJ45

Protect PNT against GPS Vulnerabilities

The ease with which a GNSS RF signal can be blocked or disrupted and the damage this can cause, have made every organization understand the paramount importance of protecting GNSS systems.

Erroneous positioning, navigation and timing (PNT) information in any part of an infrastructure can jeopardize security and disrupt user service.

Reducing the Risk

Most cyber-attacks on time systems are performed through RF signals entering time servers. One of the best ways to protect these systems is to isolate them by disconnecting their antenna, which mitigates exposure to GPS vulnerabilities such as GPS spoofing or jamming.

The RF Switch is a programmable, hardware-based standalone solution that protects your PNT systems from vulnerabilities by isolating them from the RF signals coming from the antenna. During this time, the server maintains accurate time from its internal oscillator. Since an accurate oscillator also drifts over time, once every few days, weeks or months, the antenna can be reconnected periodically to allow the time server to calibrate itself.

Two Disconnection Modes

The RF Switch can be set to of two modes using its web GUI via a LAN port.

Pre-programmable mode: Disconnection is done according to pre-set dates. The user preconfigures the period of time at which the GPS antenna is connected. The rest of the time it will be disconnected. Thus, the user limits the antenna feed to the time server, automatically reducing the risk of being affected by a temporary GPS attack.

Remote Mode: Instant disconnection from the GPS world to deal with imminent threats, typically when an instruction is given by the relevant authorities regarding an imminent threat.

Ordering Information:

RF Switch Part no. 6200

About Focus Telecom

Focus Telecom is a global provider of time synchronization solutions since 1995, offering consulting, cyber defence and synchronization solutions. Our end-to-end timing solutions generate, distribute and apply precise time for multiple industries: Communications, Government & Security, Finance & IT, Industry & Infrastructure. We enable our customers to build more reliable networks and systems supporting today's precise timing standards.

Want to learn more?

Contact Focus Telecom to find the right products and technologies for your timing and synchronization needs.

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