

CTA300

GNSS Jamming&Spoofing Probe

Description

CTA300 is a device for GNSS signal monitoring and fake (jamming and spoofing) blocking. It is a satellite signal security product developed for the current GNSS civil signals that are susceptible to interference, attack, and deception, resulting in failure of normal timing and positioning. It suitable for electric power, operators, rail transit, security and other industries.

Product View



CTA300 Front view



CTA300 Rear view

Key Features

- 19-inch, 1U design;
- Support AC and DC redundant dual power supply;
- 2-way satellite inputs, 2-way satellite outputs (support expansion);
- Support 1 channel PPS, 1 channel 10MHz input and output Real-time detection of abnormal conditions such as open circuit, short circuit and excessive loss in the feeder;
- When the feeder is in a short-circuit state for a long time, it will not damage the internal components of the equipment;
- Detect whether there is interference in the received signal in real time, and issue an interference alarm when the interference power reaches a certain level; Real-time detection of spoofing signals in the received signal, when there are spoofing signals, the output signal is turned off and a spoofing alarm is issued;
- In-situ installation, without replacing the original satellite timing system, in-situ installation can achieve timing security reinforcement;
- Seamless conversion, the original time service system has no perception, that is, the time reference given by it is converted from GNSS to GNSS;
- When the satellite is unavailable (such as national area protection, GNSS service shutdown, etc.), or the quality is degraded (such as interference, etc.), an alarm will be given in the form of an indicator light and standard data;
- Support alarm output such as power failure and signal abnormality;
- All-weather monitoring of the received satellite signal quality, remote monitoring of equipment working status, and setting of working parameters;
- The safe signal output can be maintained for at least 1h in the case of suppressing interference in the whole frequency band, and the safe signal output will not be affected in the case of non-GNSS frequency point suppressing interference;
- Support anti-forwarding, generation and intrusion signal spoofing;
- Safe signal output is not affected by GNSS deception jamming signals, including generating and forwarding deception jamming;

Input

- 2 x GNSS inputs;
- 1 x 1PPS input;
- 1 x 10MHz input.
- 2 x power inputs.

Output

- 2 x GNSS outputs;
- 1 x 1PPS output;
- 1 x 10MHz output;
- 2 x MGMT ports;
- 1 x Console port.

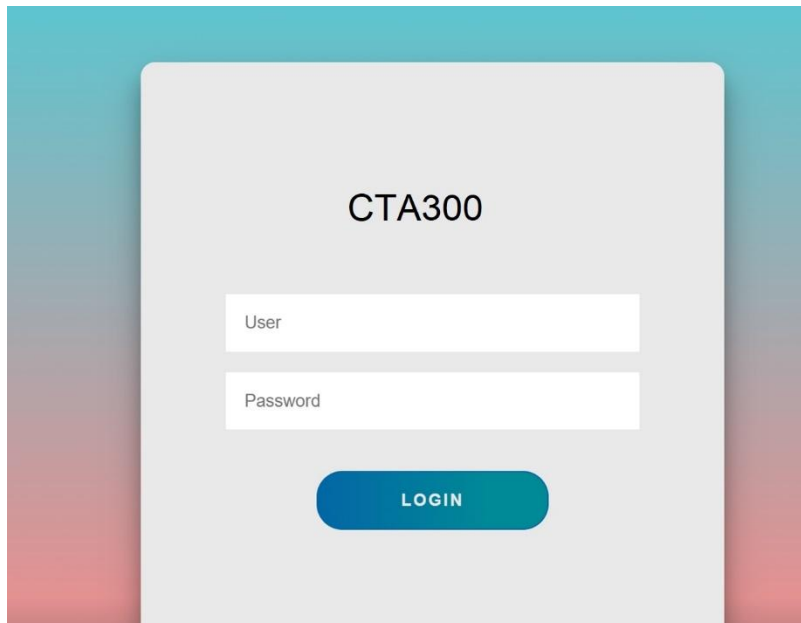
Environmental

- Dimensions:
483×240×44mm;
- Operating temperature (ambient): -30 ~ +60°C;
- Storage temperature:-40~+70°C;
- Humidity: 0 ~ 95% (without condensation).

Power Supply

- AC Power: 110~220V AC;
- DC Power: 18~75V DC;
- Power consumption: less than 40W.

WEB System



The WEB system of CTA300 support:

- Device Overview: You can see all the basic information of connected devices;
- Device Function: You can configure all ports of connected devices;
- Alarm: You can view and manage all alarms of connected devices;
- Log: You can view and check logs of connected devices;
- Device Backup: You can reboot and backup firmware of connected devices.