

GNSS–Disciplined Rubidium Atomic Frequency Standard

Full GNSS Reception
High–Performance Rubidium Atomic Clock
Combined with Ultra–Stable Crystal Oscillators

BDPNT.COM



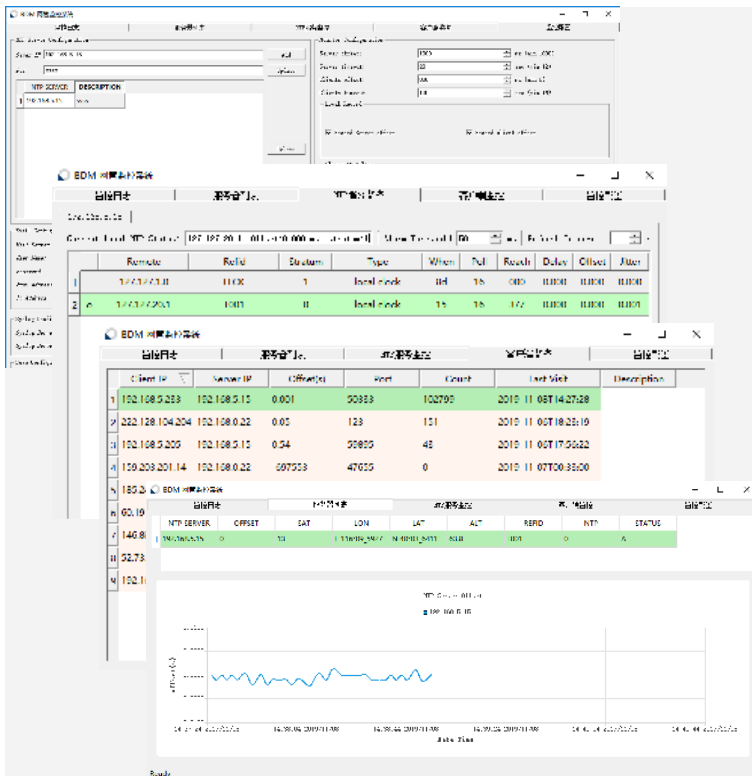
NTP Output: 6 channels, 1000M auto-negotiating
Ethernet interfaces, GNSS reference, primary time
server, synchronization accuracy of 1 μ s
User terminal synchronization accuracy: 0.5



Software Performance

Unified Network Monitoring Software

BDMonitor unified time synchronization monitoring software capable of monitoring satellite data, server information, and client information. Satellite data includes satellite time, lock status, number of satellites locked, latitude and longitude, altitude, and other information. Server information includes NTP timing status, synchronization status, server time, network configuration, and other details. Monitoring alerts support protocols such as syslog and email, or can be stored in a local log. It supports monitoring of at least 10,000 clients, allowing users to configure alert types and levels to select which alerts are reported. Network parameters can be queried and configured directly within the monitoring software, which also features rubidium clock taming/holding and (remote) monitoring of lock loss/lock acquisition status. Full-line cable – CA23–RP antenna surge arrester.



Opt-100

Low-noise 100 MHz output

Phase noise: $\leq -105\text{dBc/Hz}$ @10Hz
 $\leq -125\text{dBc/Hz}$ @100Hz
 $\leq -145\text{dBc/Hz}$ @1kHz
 $\leq -150\text{dBc/Hz}$ @10kHz

Other indicators are the same as at 10 MHz.

Opt-BDC

IRIG-B DC code input decoding accuracy: 10 ns

Opt-B3

BDS/B3 Military Code Entry

Other Options:

Supports multi-channel 30.72 MHz, 80 MHz, RS485, RS422, 1PPS, 1PPM, 1PPH, IRIG-B AC, and PTP outputs. Complies with the electromagnetic compatibility requirements specified in Section 3.9.1 of GJB2242-94,

Standard Configuration

- 1 main unit
- 1 high-sensitivity timing antenna with 50-meter cable
- 1 mounting bracket
- 1 1.5-meter power cord
- 1 (3-meter) Ethernet cable
- 1 user manual

(User Manual, NTP Client Time Synchronization Software, SNTP Time Synchronization Software, BDMonitor Network Time Synchronization System Unified Monitoring Software, and Synchronization Reference Overview for Windows, Unix, Linux, AIX, Solaris, and oth

Optional

Opt-H

Low-noise 10 MHz output

Stability: $< 1\text{E}-12/1\text{s}$
 $< 6\text{E}-13/10\text{s}$
 $< 6\text{E}-13/100\text{s}$
 $< 5\text{E}-13/\text{day}$ (GNSS locked)

Phase noise: $\leq -100\text{dBc/Hz}$ @1Hz
 $\leq -130\text{dBc/Hz}$ @10Hz
 $\leq -145\text{dBc/Hz}$ @100Hz
 $\leq -160\text{dBc/Hz}$ @1kHz
 $\leq -170\text{dBc/Hz}$ @10kHz

Distortion:

Harmonic: $\leq -50\text{ dBc}$
Non-harmonic: $\leq -90\text{ dBc}$