

## SIGMA EXTENS : extension module

The **SIGMA EXTENS** can extend the SIGMA MOD optional card capacity by 4 units (total of 8 optional cards)).



## SIGMA SWITCH : changeover module

The **SIGMA SWITCH** controls the alarm output of the main master clock. In case of failure, the SIGMA SWITCH sends all outputs from the main to the secondary master clock.



## Power supply units:

### **SIGMA UPS rack**

Uninterruptible power supply  
24V DC - 5Ah battery with charger  
Rack 3U – 9Kg



### **SIGMA UPS wall**

Uninterruptible power supply  
24V DC -  
5Ah battery with charger  
Wall mounted – 8 Kg



### **SIGMA POWER Rack**

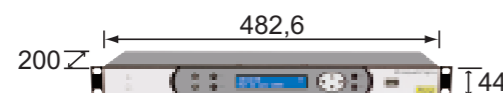
External power supply  
110/230V 24VDC  
2 x 100W - 2 kg



## Dimensions in mm

### **SIGMA rack**

Weight : 1,5 kg



### **SIGMA wall**

Weight : 1 kg



## Technical features

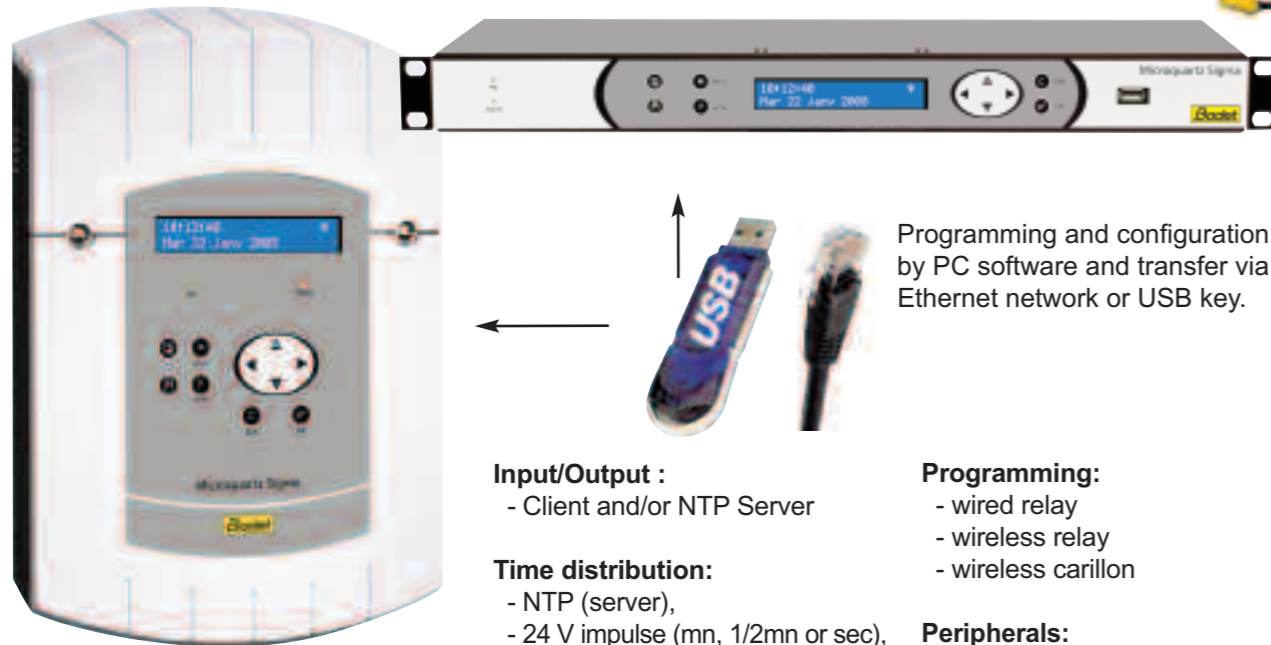
- 1 RJ 45 plug for NTP network; precision 5 ms.
- 3 relays for D1D2 impulses, alarms or circuit programming.
- 1 dry contact input.
- Automatic detection of synchro failure with switch over on the other synchro inputs NTP , AFNOR , GPS , radio
- 1 AFNOR output , 1 output for DHF transmitter
- 1 impulse output 24V minute or second 0.5A
- Power: 110/230V or TBT 24V or TBT 36/72V (rack).
- Time base accuracy: 0.1 s/day (Temperature compensated quartz oscillator TCXO).
- Integrated protection of the output against short circuits and overload.
- Permanent saving of settings.



# Time Centre NTP Client/Server

The SIGMA MOD is a time centre which combines in a single device the features of a NTP server and a master clock. It supplies a reliable and precise time reference to computers, clocks and automatic devices of the company.

## SIGMA MOD



Programming and configuration by PC software and transfer via Ethernet network or USB key.

### Input/Output :

- Client and/or NTP Server

### Time distribution:

- NTP (server),
- 24 V impulse (mn, 1/2mn or sec),
- IRIG-B/AFNOR,
- DHF,
- D1D2 230V (tower clock).

### Synchronisation

- NTP (client),
- Radio FI 162 or DCF 77,
- GPS,
- AFNOR.

### Programming:

- wired relay
- wireless relay
- wireless carillon

### Peripherals:

- wireless transmitter
- wireless relay controller
- wireless bell system
- wireless analogue or digital clocks

### Programming software

- All functions and programming accessible from a Windows PC
- **ON LINE** mode to communicate with the time centre in real time via IP

### Simple and user friendly interface

- programming, manual or automatic activation of the relays
- Programming of holidays or special day periods
- Programming of time outputs and summer/winter time changeover
- Management and display of alarms



### Main benefits

- The SIGMA MOD is an upgradeable product including a NTP time server and a master clock.
- NTP server and/or client.
- Wireless (DHF) and wired time distribution.
- Programming and setting through PC Windows software via IP network.
- Time synchronisation with automatic switching between radio and NTP inputs.
- Circuit programming in various modes: weekly, bank day, holidays, special day, astronomic or periodic.
- Circuit controlled through wireless or wired connection.

### Alarm management :

- Dry contact for visual or audible alarm annunciation.
- SNMP traps on Ethernet network
- E-mail to 3 addresses

