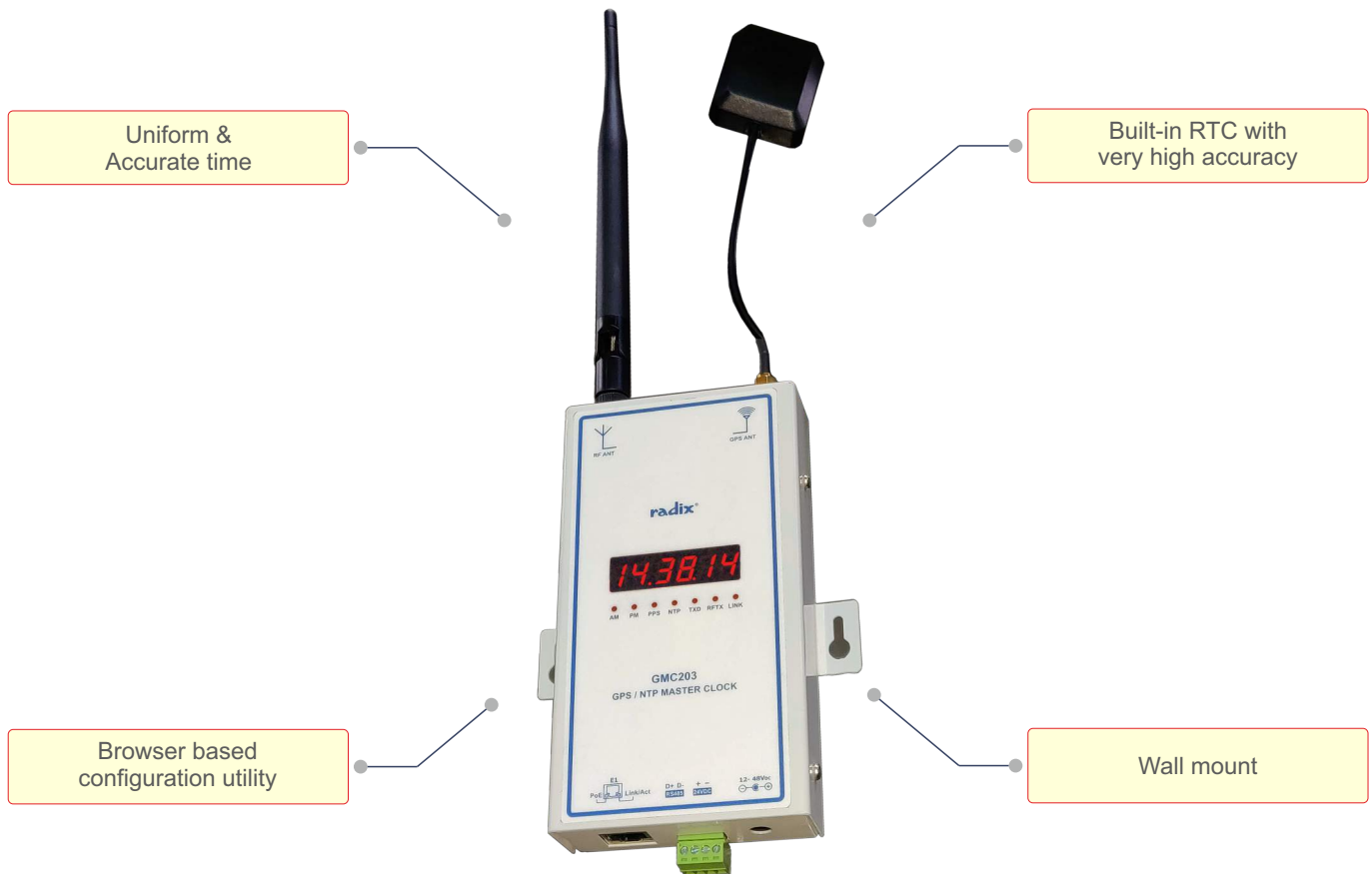


# GPS/NTP MASTER CLOCK



## ABOUT GMC203

CCTV and digital video recorder (DVR) installations require accurate reference time signals for synchronisation of system clocks to ensure that they are always set at the precisely correct time. It is crucial that all recordings are accurately time-stamped, especially for evidential purposes. Many DVR products, especially those which are PC-based, have inaccurate internal clocks which drift by many seconds per week. Considering that DVR systems may be left unattended for months on end, it is easy to see that the time settings can end up being in error by many minutes.

Accurate time is an integral part of a facility's communication system in many industries and applications. Synchronise visual time as well as all other critical timing systems including computer network operations. Radix NTP/GPS clock server (GMC203) offers network-based IP synchronized and GPS synchronised clock server. GMC203 retransmits this time over RS485 channel or to RF slaves which is selectable and response accurate time to multiple client over ethernet SNTP protocol.

In case of link failure with GPS satellite/NTP server, then clock continue to work on its internal real time clock. At a time one sync source can be selected. If one of the source is fail to synch the clock then it is automatically switch to another source. Time is accurately maintained even in the case of power cut by virtue of built in battery backup for time. User can configure time of any existing 39 time zones in the world. The daylight saving can be enabled or disabled as per the requirement.

## FEATURES

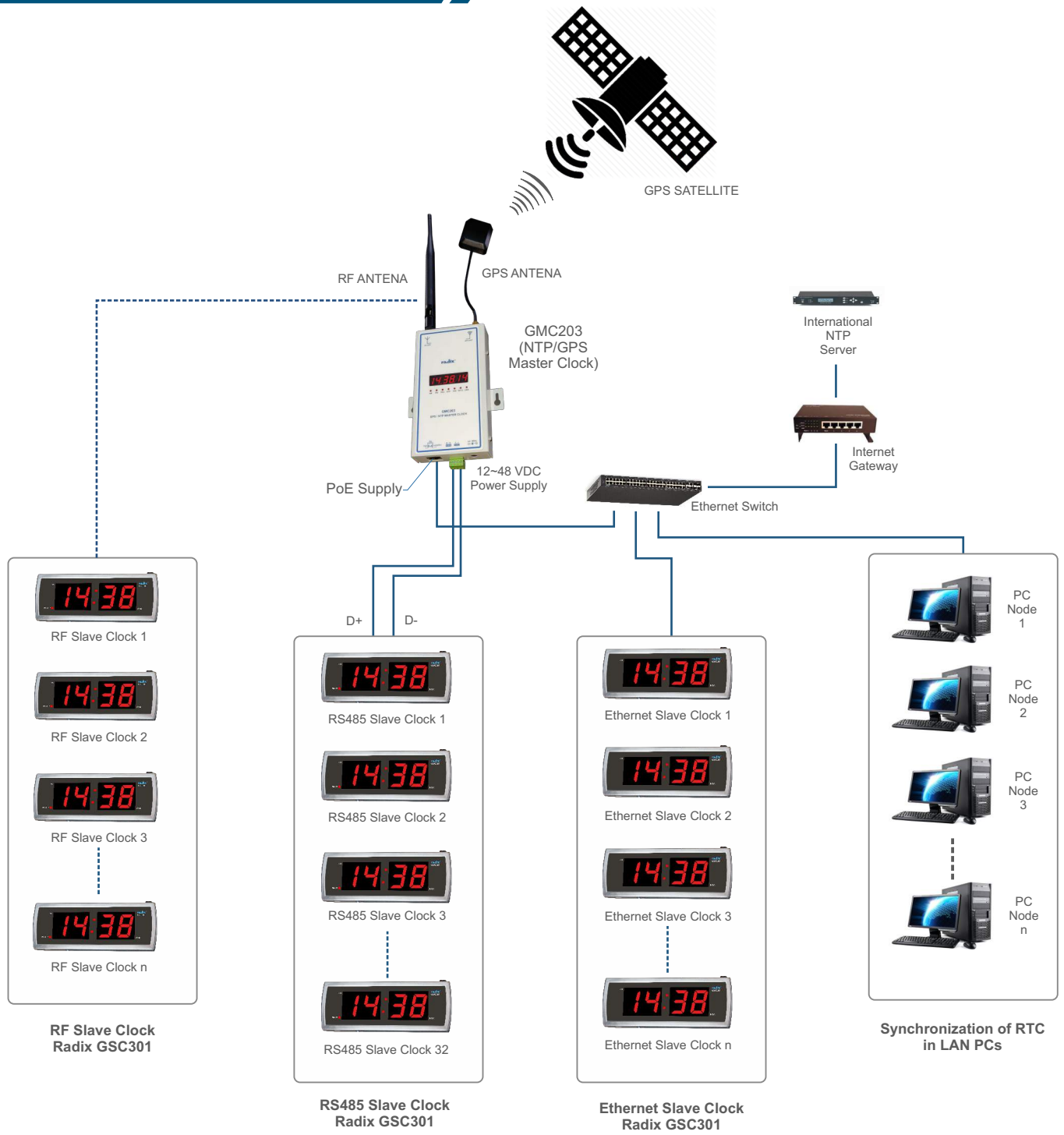
- NTP Server/GPS synchronized time
- Ethernet/RS485/RF communication between master and slave clocks
- Uniform & accurate time across the facility
- Built-in RTC in case NTP server/GPS data not available
- Browser based configuration utility
- Front panel LED indications
- User configurable 12 Hr or 24 hr format, timezone settings, daylight saving time
- Wall mount models
- 12 ~ 48 VDC power supply
- Redundant power inputs: PoE (IEEE 802.3af, Class 1) and power terminals

## APPLICATIONS

- Pharma manufacturing facilities
- Automotive industries
- Hospitals
- Office buildings
- Government offices
- Manufacturing industries

# GPS/NTP MASTER CLOCK

## APPLICATION



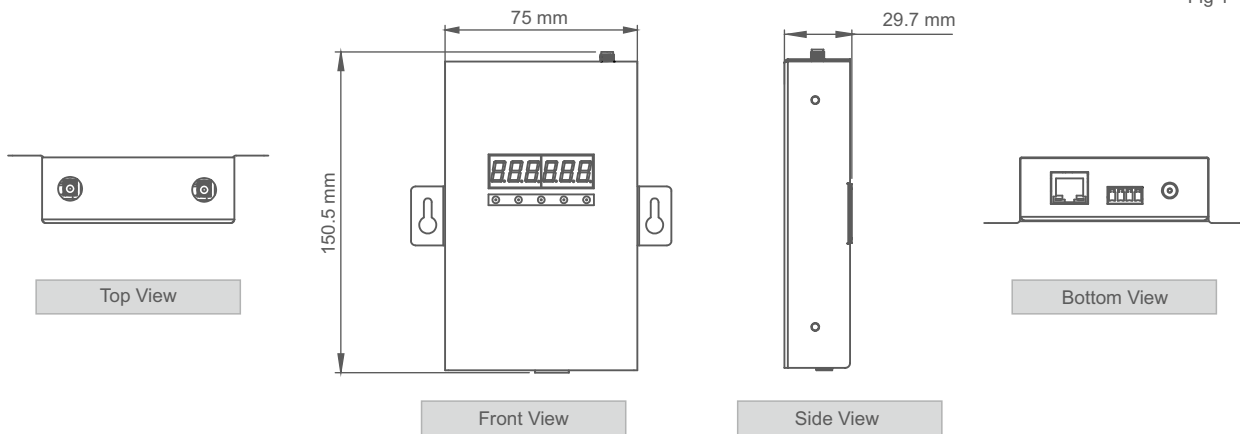
# GPS/NTP MASTER CLOCK

## SPECIFICATIONS

All specifications at ambient of 25 °C, unless specified otherwise

<b>SYSTEM</b>	
CPU	32 bit MCU
<b>COMMUNICATION INTERFACE</b>	
Ethernet	10/100 Base-TX, 8-pin RJ-45X1, (Auto-negotiating, LED indicator), PoE, (IEEE 802.3af, Class 1)
Utility software	Browser based configuration utility
Ethernet protocol	TCP, UDP, HTTP, DHCP, SNTP
Serial	2-wire RS-485
<b>ISOLATION</b>	
Power supply and RS485	2000VAC, RMS, 1 minute
<b>POWER</b>	
Power supply	12~48 VDC or PoE supply
<b>INTERFACE</b>	
Time synch	GPS Satellite/ Ethernet NTP
Master slave	RS485 (Modbus RTU), NTP, RF
<b>DISPLAY</b>	
Type	Seven segment display
Time format	6 digit (HH:MM:SS)
Colour	Red
Size	0.362" (9.19 mm)
LED indication	AM, PM, PPS, NTP, TXD, RFTx, LINK
<b>MECHANICAL</b>	
Dimensions (in mm)	150.5 x 75 x 29.7 (see Fig 1)
Material	MS
Mounting	Wall mount
<b>ENVIRONMENTAL CONDITIONS</b>	
Operating temperature	0~50 °C
Storage temperature	0~60 °C
Relative humidity	0~95%, non-condensing

## DIMENSIONS mm



## ORDERING INFORMATION

Order Code	Details
2855 1	with NTP protocol
2855 2	with RF + NTP
2855 3	with RS485 + NTP
2855 4	with RS485 + RF + NTP

### ENQUIRIES

Instruments : sales@radix.co.in  
 Sensors : sensors@radix.co.in  
 Gauges : gauges@radix.co.in  
 Automation : automation@radix.co.in  
 Level : level@radix.co.in  
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