
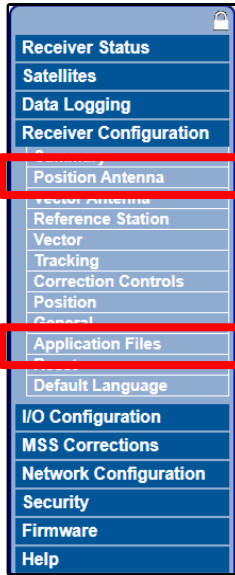


GNSS Configuration (Trimble BD992/ BD992-INS)

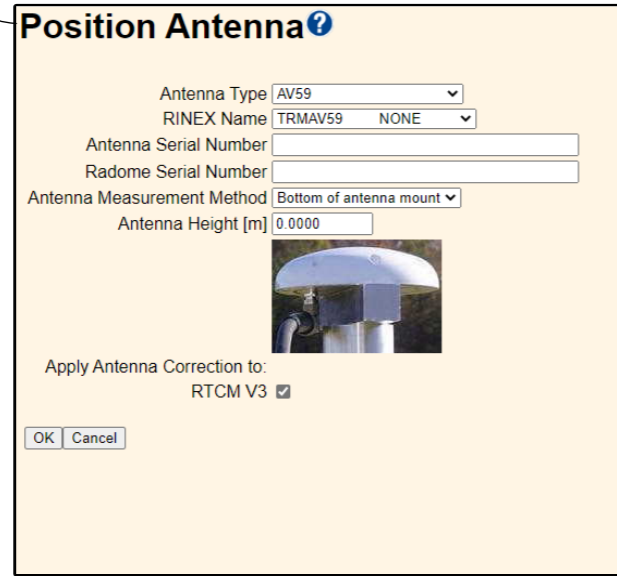
Access receiver setup through web browser:
 Note: Following details are set by ITER Systems and differ from receiver's factory settings.
 IP address: 192.168.2.24
 User : admin
 Password : ITERSystems!!

 Those steps can be done only if you already followed documents: EOD_6005_B3S_NAVBOX_CFG.pdf

Receiver Configuration



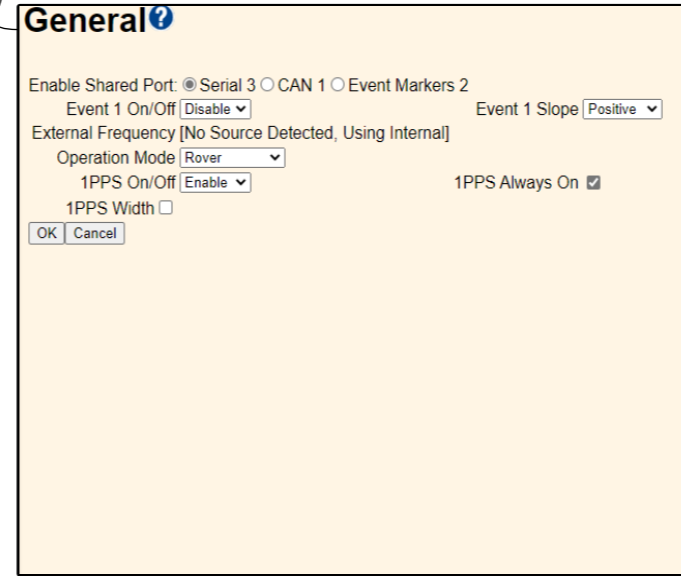
1 Choose the right antenna type used with your installation



Antenna Type: AV59
 RINEX Name: TRMAV59 NONE
 Antenna Serial Number: []
 Radome Serial Number: []
 Antenna Measurement Method: Bottom of antenna mount
 Antenna Height [m]: 0.0000
 Apply Antenna Correction to: RTCM V3

Receiver Configuration -> Position Antenna tab

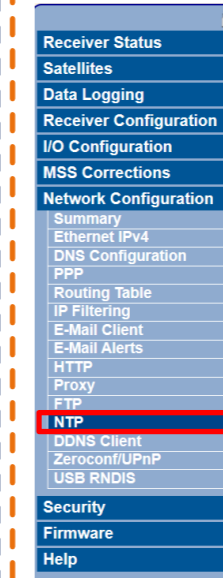
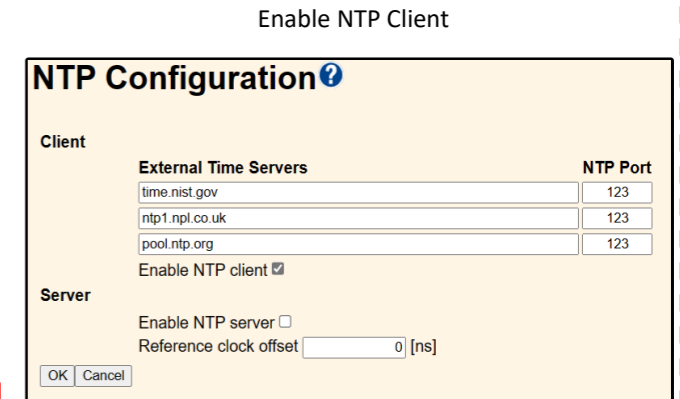
2 Enable 1PPS signal output



Enable Shared Port: Serial 3 CAN 1 Event Markers 2
 Event 1 On/Off: [Disable]
 External Frequency [No Source Detected, Using Internal]
 Operation Mode: [Rover]
 1PPS On/Off: [Enable]
 1PPS Width:
 1PPS Always On:

Receiver Configuration -> General tab

Network Configuration

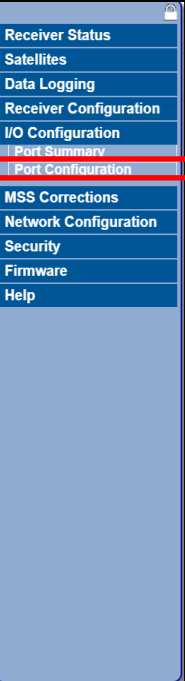
Enable NTP Client

External Time Servers	NTP Port
time.nist.gov	123
ntp1.npl.co.uk	123
pool.ntp.org	123

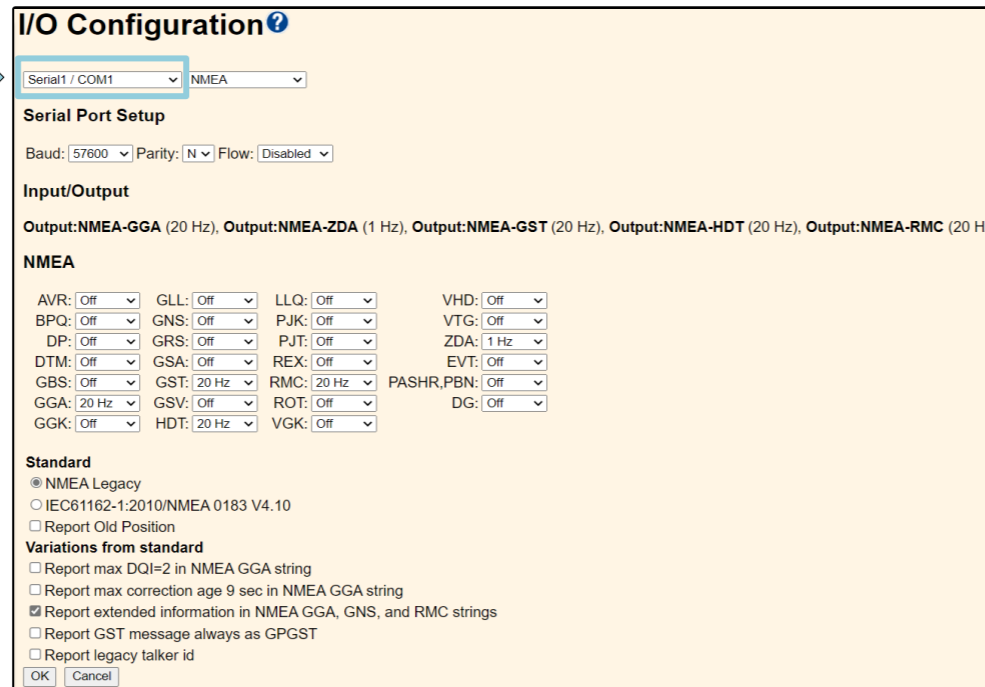
Enable NTP client:
 Enable NTP server:
 Reference clock offset: [0] [ns]

Network Configuration -> NTP

I/O Configuration



Select Serial1 / COM1
 ↓
 Message Type: NMEA
 ↓
 Baud Rate: 57600
 ↓
 NMEA Output
 ↓
 Select Following
 GGA : 20 Hz
 GST : 20 Hz
 HDT : 20 Hz
 RMC : 20 Hz
 ZDA : 1 Hz
 ↓
 Ok

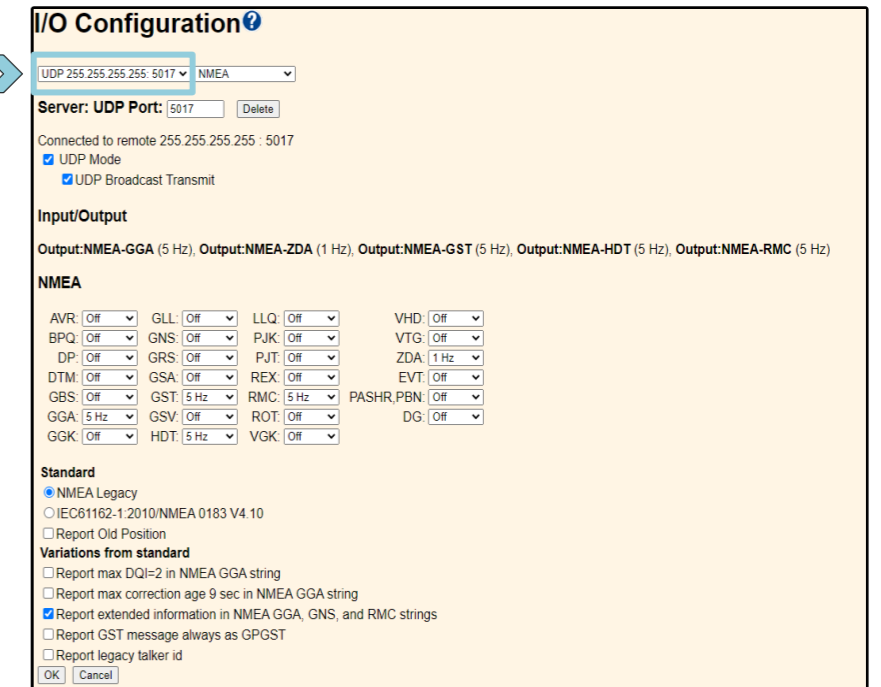


Serial1 / COM1 NMEA
 Serial Port Setup
 Baud: 57600 Parity: N Flow: Disabled
 Input/Output
 Output:NMEA-GGA (20 Hz), Output:NMEA-ZDA (1 Hz), Output:NMEA-GST (20 Hz), Output:NMEA-HDT (20 Hz), Output:NMEA-RMC (20 Hz)
 NMEA
 AVR: Off GLL: Off LLQ: Off VHD: Off
 BPQ: Off GNS: Off PJK: Off VTG: Off
 DP: Off GRS: Off PJT: Off ZDA: 1 Hz
 DTM: Off GSA: Off REX: Off EVT: Off
 GBS: Off GST: 20 Hz RMC: 20 Hz PASHR,PBN: Off
 GGA: 20 Hz GSV: Off ROT: Off DG: Off
 GGK: Off HDT: 20 Hz VGK: Off
 Standard
 NMEA Legacy
 IEC61162-1:2010/NMEA 0183 V4.10
 Report Old Position
 Variations from standard
 Report max DOI=2 in NMEA GGA string
 Report max correction age 9 sec in NMEA GGA string
 Report extended information in NMEA GGA, GNS, and RMC strings
 Report GST message always as GPGST
 Report legacy talker id

I/O Configuration -> Port Configuration

Select UDP/TCP Port
 ↓
 Message Type: NMEA
 ↓
 Port number 50002
 ↓
 UDP Mode
 UDP Broadcast Transmit
 ↓
 Output ZDA at 1Hz
 ↓
 Ok

ZDA messages will be used by Bathyswath Software for timing synchronisation



UDP 255.255.255.255:5017 NMEA
 Server: UDP Port: 5017
 Connected to remote 255.255.255.255 - 5017
 UDP Mode
 UDP Broadcast Transmit
 Input/Output
 Output:NMEA-GGA (5 Hz), Output:NMEA-ZDA (1 Hz), Output:NMEA-GST (5 Hz), Output:NMEA-HDT (5 Hz), Output:NMEA-RMC (5 Hz)
 NMEA
 AVR: Off GLL: Off LLQ: Off VHD: Off
 BPQ: Off GNS: Off PJK: Off VTG: Off
 DP: Off GRS: Off PJT: Off ZDA: 1 Hz
 DTM: Off GSA: Off REX: Off EVT: Off
 GBS: Off GST: 5 Hz RMC: 5 Hz PASHR,PBN: Off
 GGA: 5 Hz GSV: Off ROT: Off DG: Off
 GGK: Off HDT: 5 Hz VGK: Off
 Standard
 NMEA Legacy
 IEC61162-1:2010/NMEA 0183 V4.10
 Report Old Position
 Variations from standard
 Report max DOI=2 in NMEA GGA string
 Report max correction age 9 sec in NMEA GGA string
 Report extended information in NMEA GGA, GNS, and RMC strings
 Report GST message always as GPGST
 Report legacy talker id

I/O Configuration -> UDP/TCP Configuration

Please refer to Trimble BD992 user manual for detailed information

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1.00	07/12/2022	First issue	MSE	JSS

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DESCRIPTION
 TRIMBLE BD992/BD992-INS GNSS Receiver quick configuration guide

PROJECT:
 4003

All dimensions in mm – Original frame size: 400x280
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