

PICO SERV NMEA Module

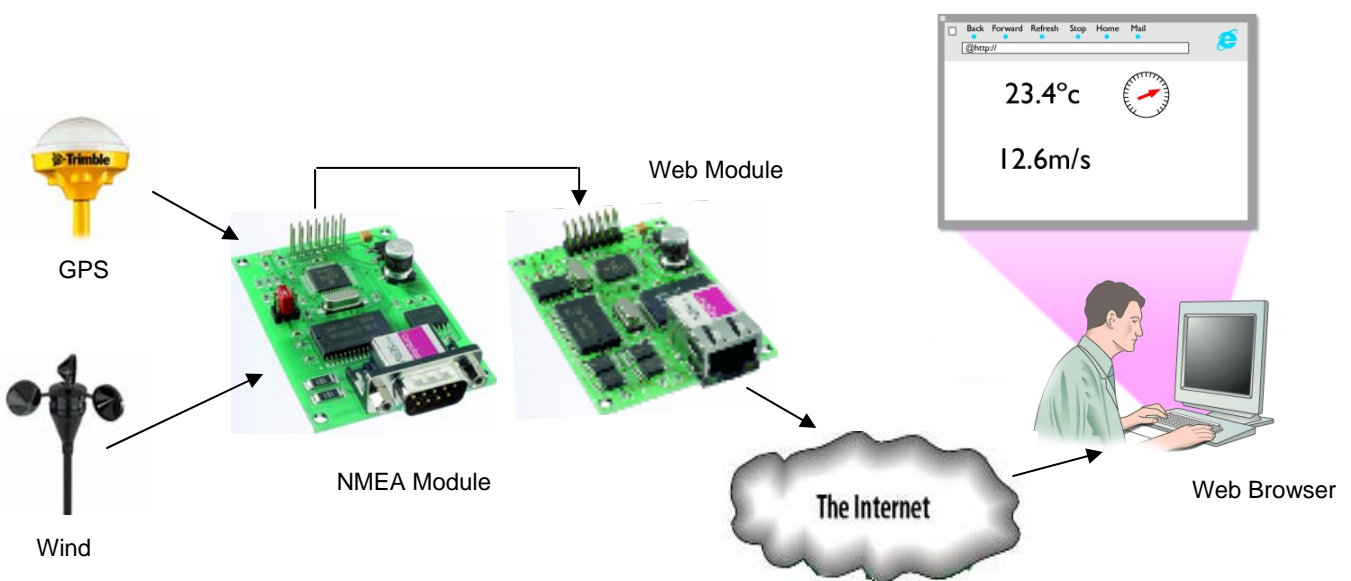
NMEA data capture module - use with the **PicoServ** Web Server module or SMS gateway modules to capture navigation and position data from a GPS receiver.

Part of the family of IO expansion modules for the PicoServ miniature web server system, the NMEA module provides a means of capturing position, navigation and other data from a GPS receiver and other NMEA compliant instruments.



The NMEA data capture module stacks directly onto the PicoServ web server or SMS gateway module to provide a means of reading navigation and location parameters such as position, course and speed from a GPS receiver in addition to other data available from NMEA compatible instruments such as wind speed and direction or water depth.

Data captured by the PicoServ NMEA module can then be displayed in a standard web browser or via SMS on a mobile phone.



PicoServ NMEA Interface Module Application

Specifications

Interfaces

NMEA Serial interface

Format: NMEA 1083 compatible.
Baud rates: 4800, 9600, 19200bps.
Connector: 9 pin male 'D' type connector

I2C Serial bus interface

Used for parameter and data exchange between The SMS Gateway module and PicoServ web server or I/O modules.
Conforms to Philips I2C bus specification.
Speed: 750Kbps.
Addresses: up to 8
Connector: 14 pin 0.1" male header.

NMEA

Compatibility NMEA 0183

The following NMEA sentence types are supported:

| | |
|------------|--|
| RMA | Minimum Navigation Information |
| RMC | Minimum Navigation information (GPS) |
| GLL | Position (Latitude and Longitude) |
| GGA | GPS position (Latitude and longitude + UTC time) |
| VTG | Course Over Ground and Speed Over Ground |
| DBT | Depth below transducer |
| MWV | Wind speed & wind angle |

Electrical

Power requirements 6-28 VDC, 20mA
Power consumption 180mW

Environmental

Operating Temperature 0 - +70oC
Storage Temperature -40 - +100 oC
Humidity 0-95% non-condensing

Dimensions 70mm x 50mm x 16mm (2.75" X 2" X 0.625")



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