

### Key Features

- Reads, synchronizes to, and outputs NMEA-0183 ASCII Messages
- NMEA code transmitted over Ethernet, RS-232 and USB ports
- Software controlled
- Supports multiple baud rates from 4,800 to 57,600
- May be added to MCR1000 and MCR5000

Masterclock's MCR-NMEA is an add-in firmware option for Master Clock Reference devices which reads and synchronizes or outputs NMEA-0183 messages.

The NMEA input option automatically detects and locks to the incoming NMEA-0183 messages. It is software controlled and locks to the most accurate time reference message available.



| Specifications       | Input/Output NMEA time stamped messages  |
|----------------------|--|
| Messages Supported   | ZDA, GGA*, GLL*, GSA*, GSV*, RMC*, VTG*  |
| Baud Rates Supported | 4800, 9600, 19200, 38400, 57600  |
| Data Bits            | 8, 7   |
| Parity               | None, Odd, Even  |
| Stop bits            | 1, 2   |
| Decode Rate          | Up to once per second per message  |
| Accuracy             | Within 10 ms of receipt of first character of NMEA packet<br>Overall accuracy to UTC top of second is dependent upon the NMEA output |

\*Requires MCR-GPS Module to output