

Led Second Solution

For The Smart GXClock-500 Product

Customer Question:

I'd like to know if you've done any testing with the upcoming leap second on the GXClock-500 product. We'd like to make sure it handles the leap second properly. The documentation only claims that it "handles it correctly during holdover" and that there is a "leap second" bit in the BT9 message. We'd like to know how the device will behave on the leap second when it occurs.

Spectratime Answer:

We are confident that the GXClock-500 will handle the next leap second events on 06/30/2015 and 01/07/2015 correctly because of these planned software solutions:

- There are already "40" inside the message BT9, meaning this event is already known
- The previous leap second was handled correctly - see the data log below. Our internal name for the GXClock-500 was SXOII and you can see the message display with "60" as second data.

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$GPRMC,235950.00,A,4659.3632,N,00654.3642,E,,300612,,E*5A
$GPRMC,235951.00,A,4659.3632,N,00654.3642,E,,300612,,E*5B
$GPRMC,235952.00,A,4659.3632,N,00654.3642,E,,300612,,E*58
$GPRMC,235953.00,A,4659.3632,N,00654.3642,E,,300612,,E*59
$GPRMC,235954.00,A,4659.3632,N,00654.3642,E,,300612,,E*5E
$GPRMC,235955.00,A,4659.3632,N,00654.3642,E,,300612,,E*5F
$GPRMC,235956.00,A,4659.3632,N,00654.3642,E,,300612,,E*5C
$GPRMC,235957.00,A,4659.3632,N,00654.3642,E,,300612,,E*5D
$GPRMC,235958.00,A,4659.3632,N,00654.3642,E,,300612,,E*52
$GPRMC,235959.00,A,4659.3632,N,00654.3642,E,,300612,,E*53
$GPRMC,235960.00,A,4659.3632,N,00654.3642,E,,300612,,E*59
$GPRMC,000000.00,A,4659.3632,N,00654.3642,E,,010712,,E*51
$GPRMC,000001.00,A,4659.3632,N,00654.3642,E,,010712,,E*50
$GPRMC,000002.00,A,4659.3632,N,00654.3642,E,,010712,,E*53
$GPRMC,000003.00,A,4659.3632,N,00654.3642,E,,010712,,E*52
$GPRMC,000004.00,A,4659.3632,N,00654.3642,E,,010712,,E*55
$GPRMC,000005.00,A,4659.3632,N,00654.3642,E,,010712,,E*54
$GPRMC,000006.00,A,4659.3632,N,00654.3642,E,,010712,,E*57
$GPRMC,000007.00,A,4659.3632,N,00654.3642,E,,010712,,E*56
$GPRMC,000008.00,A,4659.3632,N,00654.3642,E,,010712,,E*59
$GPRMC,000009.00,A,4659.3632,N,00654.3642,E,,010712,,E*58
$GPRMC,000010.00,A,4659.3632,N,00654.3642,E,,010712,,E*50
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