



GPS PLUG IN BOARD

TK 42

A reliable and accurate GPS plug in board that delivers near atomic clock accuracy to LTE cellular network base stations.

The clock outputs 10 MHz and 1 PPS differential signals and will continue to operate in extreme temperature variations. The clock typically has 5 μ s of drift in a 24hr period whilst under holdover.

KEY FEATURES

- 10 MHz and 1 PPS LVDS outputs
- Operating temperature -33°C to +85°C
- Typical 1PPS accuracy of 5 μ s of drift in a 24 hr period whilst under holdover (max 10 μ s)
- 10 MHz accuracy <1 PPB
- Remotely upgradable firmware
- Power consumption <8 W
- Highly customisable to requirements
- Low cost

PHYSICAL

Approximate Dimensions*

(W) 79 mm x (D) 89 mm x (H) 20 mm

Weight: <150g

*Can be modified to suit customer requirements

TEMPERATURE CONDITIONS

Operating temperature range: -33°C to +85°C

Operating humidity range: 5% to 95%

Moving temperature 0.5° per minute max

RESISTANCE TO INTERFERENCE

Interfering wave characteristic:

High resistance to external noise

Anti-jamming

1PPS

Precision (GPS Lock): <±50 ns UTC Time

Holdover Characteristics:

<±5 µs/8 hours
(48-hours aging)

<±10 µs/18 hours
(48-hours aging)

<±10 µs/24 hours
(7-days aging)

10 MHz: <±1.0x1.0⁽⁻⁹⁾ peak
to peak

ENVIRONMENTAL AND ELECTRICAL

Input Voltage Range: + 10 Vdc to +14 Vdc

Power Consumption
at Operation: 8 W (Max)

SERIAL PORTS

1 x Management port

1 x Time of Day output



ABOUT TEKRON

Tekron is a leading developer of accurate GPS/GLONASS clocks and time synchronisation solutions for use in industrial applications.



CONTACT US

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Note:
The quickest and most effective method to request a quote is through the online quote request form on the Tekron website.