



## N1

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A reliable, accurate, and easy to use NTP/SNTP timeserver for commercial and light industrial use. It is the perfect solution for industries and applications where precise and reliable timing is required.

Affordable, easy to install, configure and connect. The N1 is exclusively available on the Tekron online store and includes free worldwide, next business day shipping.\* The standard box includes the N1 GPS clock, a magnetic mount antenna with 5m cable, 2 Ethernet cables (straight through and crossover), an AC plug pack, and quick start guide.

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### KEY FEATURES

- Low Cost NTP/SNTP Time Server
- Free Next Business Day Dispatch\*
- Accuracy of < 200ns to UTC
- Quick and easy purchase and setup
- 2 year Manufacturer's Warranty
- Excellent Customer Support
- DIN Rail Mountable

# TEKRON

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## PHYSICAL

UL94-V0 polycarbonate flame retardant DIN-rail mount case with IP40 (Ingress Protection rating). (W) 55 mm x (D) 60 mm x (H) 90 mm, 0.15 Kg  
Rising clamp terminals: Wire size (max): 1.5 mm Ø

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## LED INDICATORS

Three LEDs indicating multiple statuses:

- Sync Status
- GPS Status
- Ethernet Cable connection

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## GPS RECEIVER

L1, C/ A code, 12 Channel Parallel-tracking receiver

Frequency: 1575.42 Mhz

Sensitivity:

Acquisition -146 dBm

Tracking -160 dBm

Acquisition:

Hot Start <8 s

Warm Start <35 s

Cold Start <38 s

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## INPUT AND OUTPUT OPTIONS

### Network Time Server Port

Timing accuracy: <200 ns to UTC

This UTP network interface option allows TTM 01-E to function as a Stratum 1 NTP/ SNTP Time Server.

Protocols Supported: ARP, UDP, ICMP, TFTP, DHCP, SNMP, and BOOTP.

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## ENVIRONMENTAL AND ELECTRICAL

Power supply:

L = 14-36 Vdc\*\*

Power Drain: 4 W max

Operating temperature: -10 to +65°C

Humidity: To 95% non-condensing

Isolation

Power to Antenna: 1 kV

\*\*110-240 Vac plug pack included with each N1 clock.

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## CONFIGURATION SOFTWARE

Windows based configuration software is available for download on the Tekron website.

Remote configuration over Ethernet includes the following user adjustable features:

- Multi-level access control
- Privacy & authentication methods equivalent to SNMP USM
- "Supervisor-mode" prevents non-approved changes.
- Test mode
- Commissioning tool

### Timing & Synchronization

Worldwide daylight savings and local time configuration using either rule based or fixed date methods. Options that allow equipment checks prior to full installation and adjustable hold-over times to increase reliability in the case of poor GPS coverage. Adjustments to compensate for installation parameters such as delay of GPS signal through antenna cable.

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## OPTIONAL ACCESSORIES\*\*\*

### Physical

- GNSS antenna
- Antenna cable
- Adjustable antenna mount
- Lightning protection kit

Refer to [tekron.com](http://tekron.com) for full technical specifications.

\*\*\*Compatible with the optional timing GNSS Antenna. Additional accessories will incur an additional shipping fee.

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## ABOUT TEKRON

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



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## 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.