PRPTP TRANSLATOR

TRANSLATES PTP (DEFAULT, POWER, AND TELECOM PROFILES) TO LEGACY TIME CODES SUCH AS IRIG-B

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The PRPTP translator is a compact DIN-rail mount device that translates PTP (default, power, and telecommunications profiles) to legacy time codes such as IRIG-B. The PRPTP translator connects directly into a PRP enabled network, reducing the requirement for a RED box.

The PRPTP translator enables you to migrate to PTP and Parallel Redundancy Protocol (PRP) networks whilst leveraging the benefits of network redundancy over an Ethernet Backbone, as well as the sub microsecond precision and redundancy capabilities of PTPv2 (IEEE1588v2).

KEY FEATURES

- Compact DIN-rail mounting form factor
- Allows IED's equipped with IRIG-B, Pulse or other common time code inputs to conveniently access a PRP enabled PTP network
- Input: default, telecom or power profiles
- Output: 2x Programmable TTL Outputs
- Intuitive Configuration Software
- Enhanced Security and encryption that exceed NERC CIP requirements
- Wide range power supply 48-250 Vdc

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PHYSICAL

- Hardened metal casing with DIN-rail mount for industrial environments.
- IP30 rating
- Case Dimensions:
  Width 110mm x Length 170mm x Height 45mm

LED INDICATORS

- Power
- Ethernet ACT and LNK LEDs
- Alarm indicator
- Sync indicator

ENVIRONMENTAL AND ELECTRICAL

Power Supply:	48-250Vdc
Power Drain:	5 W max
Operating temperature:	-10 to +65°C
Humidity:	To 95% non-condensing

Isolation

Power to I/O:	3.75 kV
Between TTL outputs A + B:	3.75 kV

STANDARD OUTPUTS

TTL
2 x TTL Independently programmable outputs, 2-pin, 0-5 V, 150 mA, self resetting fuse

Alarm
1 x Sync relay (3 pin - Form C contact)
Contact rating: 200 V, 150 mA DC

ETHERNET CONNECTION

Fibre
- 1310nm, multimode
- 100 base Fx, LC connector

COPPER
10/100/1000 Base T, RJ 45 connector

Protocols Supported

General
DHCP auto-configuration with fallback to ARP tested link-local address
VLAN packet tagging

SNMP
v1, v2c & v3 support can be independently enabled
Configurable v1, v2c community names & security groups
Fully configurable via SNMP
v3 User-based Security Module (USM) support USM authentication methods: MD5, SHA
USM privacy methods: DES, AES
USM MIB support

Notifications
SNMP trap generation v1, v2c & v3
SNMPv3 traps can be authenticated & privatised via USM
Syslog (RFC-3164 & 5424 verities)

IEEE 1588 v2 (PTP v2) Support
PTP (IEEE1588) v2 slave operation
Slave only profile selection:
- Default
- Power
- Telecom
Operating mode supports 1-step / 2 step tx/rx Layer 2 or Layer 3 mapping
Peer to Peer and End to End delay support

CONFIGURATION SOFTWARE

Windows based configuration software is available to be downloaded from the Tekron website.

User adjustable features include:
- Multi-level access control
- Privacy & authentication methods equivalent to SNMP USM
- "Supervisor-mode" prevents non-approved changes
- Test mode
- Commissioning tool

Top View

Bottom View

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.

WORLD WIDE WARRANTY
10 YEARS

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