

## World's 1st open source Time Recorder!

The TR610 is a simple and easy-to-use Time Recorder. It utilizes RFID technology to allow for quick user registration -- users may not even have to take their employee card out of their wallet to swipe it. The TR610's bright LCD display and four buttons make for a simple interface with a very low learning curve. Using familiar icons from other GigaTMS products, new users quickly understand how to clock in and clock out. The display also shows the current time, date and memory status. The display can also be used to configure the device: Using a "Master Card", the Administrator can access the on-screen menu system and change device settings. The menu system is navigated using the four buttons on the device.



Ethernet connectivity and an integrated web server makes the TR610 easy to administer remotely. Its password-protected web interface allows an administrator to remotely manage all device settings, and download or search the internal event log. Since the TR610 has a built-in web-server, it does not require additional software to administer. Alternatively, for larger systems with multiple terminals, you could use Tibbo AggreGate as an administrative back-end. TR610 is also compatible with Tibbo OS Manager, for changing device settings. The TR610 can also automatically synchronize the internal clock with an Internet time server, so that the time is always correct.

System integrators and developers may also be interested to know that the TR610 is internally based on Tibbo BASIC, and its application is open-source and may be obtained freely and customized.

### Specifications:

Display	128x64 black/white, blue backlight
Proximity card type	RFID 125Khz (TR610R), Mifare (TR610MF)
Reading distance	5cm. min (TR610R), 2cm. min (TR610MF)
Unit distance	At least 50 cm between two TR610 units.
Internal memory	1024KB Flash, approx. 21,000 event log records*
Interface	10/100 Base-T Ethernet port, RS232 port
Relays	x2, 1Amp/12V rating
Configuration	On-screen menu, web interface, Tibbo AggreGate
Internal application	Upgradeable, open-source, written in Tibbo BASIC
Mounting	Wall or desktop (programmable display orientation)
Power supply	DC 12V, 500mA
Operating temperature	0-55 degree C
Operating humidity	10-90%
Certification	CE- and FCC-approved

\*Specification is subject to change without notice.

### Features:

- Bright, clear LCD display.
- Based on RFID (Proximity) technology.
- 10/100 Base-T Ethernet port.
- Internal backup battery for the real-time clock.
- RS232 serial port for connecting external serial devices (such as a barcode scanner).
- Two relays to control external loads, such as electric bells.
- Internal flash memory stores approx. xxx [Todo: find out] event log records.
- Compatible with DS Manager software.
- Wall-mount or desktop operation (display orientation may be configured).
- Firmware and internal application may be upgraded through the network or serial port.
- Built-in Web server for administration and event log download.
- IP address configuration using DHCP.
- Time/Date synchronization through SNTP.
- Works with Tibbo AggreGate.
- Internal application written using Tibbo BASIC and may be customized.

### GIGA-TMS INC.

8F, NO. 31, LANE 169, KANG-NING STREET,  
HSI-CHIH, TAIPEI COUNTY, TAIWAN  
Tel: 886-2-26954214 Fax: 886-2-26954213  
<http://www.gigatms.com.tw/>  
Email: [promag@gigatms.com.tw](mailto:promag@gigatms.com.tw)  
[promag@ms24.hinet.net](mailto:promag@ms24.hinet.net)