



TRAX+G is a family of **data collection terminals** designed to satisfy the need to monitor the activity of production personnel and operating machinery, as well as to provide with full **attendance recording and access control** capabilities in offices, factories, hospitals and worksites. All **main communication and Auto ID technologies** are offered incorporated in different versions.

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The TRAX+G family

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Programmable Terminals with integrated Ethernet interface for Data Collection, Time & Attendance and Access Control Recording

Also with Analog Modem, GSM or WLAN 802.11B versions



OVERVIEW

- **Easy to use** TRAX+G terminals meet the growing demand for **easy interfacing to existing LAN's or WAN's**, which are nowadays considered standard, both, in the industrial sector and in all office applications.

MAIN FEATURES

- **Integrated Ethernet/IP** Interface with P.O.E (Power over Ethernet) support. Allows the simplest wired type installations.
- **GSM** version allows communications via GSM data sessions, or in/out sms or upgrade upon request.
- **WLAN 802.11b** version allows using TRAX+G in environments with WiFi Internet coverage.
- **Internal magnetic, barcode or proximity (RFID) card readers.** Wide range of technologies:
 - 125 KHz r/o versions, EM4102 comp. or HID
 - 13.56 MHz R&W for ISO 14443A/B tags (e.g. Mifare and others), or read-only ISO15693
 - LEGIC® for prime proprietary and advant ISO 15693/14443A cards.
- **Analog Modem** version (speed: nominal 19200bps, 38400 compressed) provides communication convenience).
- **Time & Attendance and Access Control firmware included.**
- **Script interpreter** for customized data collection procedures.
- **Compact and elegant design**, appreciated when space saving is important.
- **Wall or table mount. Optional Floor Stand** allows kiosk-type installation.
- **Robust, splash/dust proof ABS casing**, IP65 (except for barcode version). Not inflammable casing, **ABS-V0 upon request.** Aluminum connectors cover and wall support.
- **Wide configurability with 99 parameters** both from the keyboard and communication channels.
- **File system based memory allocation.**
- **Off-line/On-Line or both.** Autonomous mode using its standard FW or user defined script procedures or On-line real time operation under the control of the host computer. If the host does not reply within a user-defined time limit, the terminal automatically goes into off-line mode.
- **Automatic programmable shut-down** in the event of a power supply failure. The terminal can retain its data for two months. The battery ensures up to 6 hours working time (magnetic reader versions).



Software Support for TRAX+G

Free downloads from the Partners Area on our web site www.axesstmc.com

- **Ethertest and TMC DLL Demo**
For immediate remote configuration of TRAX+G parameters and terminal testing.
- **OCX** (Etherctrl.ocx / EtherCtlTest.exe) For developing your on-line/off-line applications. Demo program in VB6 for evaluation and testing.
- **DLL's** (Proxc.dll/TMCDLLdemo.exe).
- **TraxIT** (TraxIT32.exe) Complete application for remote configuration of TMC terminals in different installation types and for batch communication sessions.

Unique functional upgrades features

- TRAX+G versions with **RS485/RS232** interfaces only can be upgraded to Ethernet/IP by purchasing optional **SW activation key (standard on all FingerTRAX and EtherTRAX versions)**.
- Also NET92 Master capability can be activated by purchasing optional SW activation key.
- Other **FW options** (i.e. Wiegand compatibility, external GSM modems, etc.) are **also available by purchasing optional SW activation keys**.

FUNCTIONS

- **Attendance Recording/Access Control firmware:**
 - validate transactions by user group and time zones,
 - allocate description codes for different transactions,
 - record attendance of a non card-holder under the authorization of another person who is a card-holder,
 - review all transactions of a single user,
 - display messages and data sent by the controlling computer.
- User defined **interactive, event driven data collection transactions:** the correctness of data can be checked by means of prompts to the user and data validation tables. The user can make choices from an interactive menu, the terminal will create a print-out or activate a relay on the basis of the data introduced. One can include the value of the counter on the optoisolated input line.
- **Each transaction can be controlled by a procedure previously loaded onto the terminal** and activated using the function keys. One can move from a procedure to another on the basis of the data collected through the keypad, or the barcode, magnetic or proximity card readers. Procedures can also be activated at a set time on a set day of the week.
- The management of data, procedures, and configuration parameters, either from a remote computer or via the keypad, is extremely flexible thanks to the **memory based on a file system and its powerful set of shell commands**, accessible via RS485/NET92, serial, Ethernet or wireless connections.
- **Customer's specific applications** can also be written in "C" and downloaded into Flash Memory, extending or replacing the standard functions.

HARDWARE SPECIFICATIONS

DISPLAY	128x64 graphic, superTwist white led backlit, up to 4 fonts on the screen at the same time. Up to 25x6 text rows, icons bitmaps support.
KEYPAD	Membrane type, dust and splash proof, 20 keys with tactile action.
INTERNAL READER	Magnetic ISO track 2, IR barcode, or proximity: 125KHz read only EM4102 comp., or, different model, HID 125KHz.; ISO 14443A Mifare®, LEGIC® advant and ISO 15693. Available without reader on request.
AUXILIARY READER	RJ11 connector for external barcode reader (CCD pens, laser, barcode slot readers, EAN, I2/5, C39, C128, EAN128). Or alternatively, for optional secondary magstripe or RFID reader.
BEEPER	Single tone buzzer.
BATTERY	Backup battery capacity: 550mAh Average consumption with magnetic reader: 90mA Average consumption proximity readers: 170mA
COMMUNICATION PORTS	Ethernet: RJ45 connector 10BaseT - UDP/IP PoE (Power Over Ethernet) type A&B 802.3af compatibility. RS232: optoisolated 1200, 2400, 4800 or 9600 Baud. On extractable screw-connector block. RS485 (NET92): can be used for master or slave RS485 applications (on extractable screw-connector block). GSM version: features GSM data, SMS communications. (RS485 and Ethernet still available, but not RS232). Internal, not visible antenna. Analog Modem version: speed: nominal 19200bps, 38400 compressed. WLAN 802.11b version: internally connected via RS485. EtherLite/UDP compatible.
INPUT/OUTPUT PORTS	Input: 1 digital (optocoupled). Secondary input (for open/closed contacts) only if RS232 is not in use. Output: 1 relay 2A 60V - option up to 4 Telerelays.
MEMORY	512 KB SRAM (480kb for file system), 256KB flash for O.S. and reloadable custom firmware, 32KB bootloader.
POWER SUPPLY	9..36Vdc (or 9..56Vdc for Power over Ethernet 802.3af versions).
ENVIRONMENTAL	Operating: -10° C to + 50° C, Storage: -20° C to +70° C, Humidity: 0 to 95% non condensing (barcode version) ABS/VO. IP65 (except for barcode version).
DIMENSIONS - WEIGHT	120 x 200 x 100 mm (WxHxD) 740 g - 950 g (depending on versions).