

The logo for AST, consisting of the letters 'AST' in white on a dark teal square background. The background of the entire page is a collage of images related to biometrics and security, including fingerprints, a person's face, a person in a lab coat, and a control panel with a keypad.

AST

COMPACT BIOMETRIC

Fingerprint Identification Terminal for
Physical Access Control and Time & Attendance
Fingerprint ID: High Secure & Easy Identification

- Fingerprint Identification with Personnel adaptive Algorithms Capability.
- High Security Terminal's Network Management.
- Remote Management & Maintenance.
- Control of peripheral Devices & External Systems Integrated.
- Smartcard or Proximity (Mifare, HID, Indala and others) Card Readers as an Option.
- TCP/IP Communication.
- Embedded Linux.
- USB for Webcam to transmit Video on IP.
- Wiegand, Clock/Data, or TTL Serial, and Dual port RS-232/485 as standard interface for integration with 3rd party systems.

Biometric control through fingerprint capture is, nowadays, the most reliable, fast, and secure system and, at the same time, the least invasive one of any existing on the market.

Physical Access Control System. AST has developed a complete solution to manage Physical Access, Gesac II, which integrates the range of terminals Compact Biometric, as result of the large experience obtained through years of I+D on the fingerprint identification field, overall on forensic purposes.

Compact Biometric Terminals offer a varied range of devices: Internal Card Readers, Smartcard & Proximity, Bar Code Readers, providing the following advantages:

- **Reliability:** Fingerprint identification technology widely contrasted and evaluated in large & huge nationwide forensic automated fingerprint identification systems, AFIS's.
- **Security:** Encryption on data among terminals and control equipments.
- **Integration:** Easy and costless integration in existing access control and time & attendance systems.
- **Autoprotection:** To avoid unauthorised handling it ships two tampers to launch alarms and to automatically stop and reboot.
- **Internal Architecture based on an open and standard platform:** Embedded Linux.

Gesac II system allows managing of unlimited number of terminals for high security needs at accessing sensitive facilities, for personnel as well as for vehicles, with automatic plate reading, using secure communications, with distributed information but based on central management.

Technical Features:

- TCP/IP connection 10 Mbps.
- DHCP client.
- Selectable TCP port.
- Capacitive Fingerprint sensor with 13 x 18 mm surface and 500 dots per inch resolution, ANSI/NIST compliant.
- 2 rows 40 columns display back lighting.
- Membrane keyboard with 12 numeric keypads and 12 programmable function keypads.
- Beeper.
- Internal power supply with charging battery circuit.
- Battery autonomy: least 4 hours depending on configuration.
- Two Tampers for alarms against opening and unauthorised handling.
- 1:1 verification in less than 1 second.
- Processor based on Power PC.
- Operating System Linux kernel 2.4.24 embedded.
- Resources for shipping readers and for controlling peripheral devices:
 - Ports:
 - Internal Port Wiegand, Clock/Data, TTL serial.
 - External Port Wiegand, Clock/Data, TTL serial for integration in pre-existent systems.
 - Dual Port RS-232/485.
 - Internal Port USB for Webcam transmitting 10 fps.
 - Digital outputs, TTL levels:
 - 4 digital outputs TTL to activate external devices.
 - Digital Inputs, TTL level:
 - 4 digital inputs to control incoming signals from external devices.
 - Relais:
 - 2 bistable Relais for switching external circuitry.
- Dimensions 248x262x100 mm.
- CE Norms compliant.



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