

Biometric time clock

LTIMA7

A 7-inch terminal that keeps clocking through a power cut — and drives the door while it does it.



Example configuration shown; modules are fitted to order.

The **LTIMA7** is the terminal we install where the clock has to do more than register hours: a 7-inch touch screen, a built-in battery that carries it through a power cut, gigabit Ethernet, and two relays and two Wiegand inputs for a door. It registers a punch by fingerprint, by face or by card, and sends it straight into GEM Time — no exports, no files to import, no second set of hours to reconcile.

7"

capacitive touch
1024 × 600

2,000 mAh

battery backup
5-hour fast charge

< 1 sec

infrared face
recognition

Gigabit

Ethernet, plus
dual-band Wi-Fi

What the LTIMA7 does

Every punch the terminal takes is applied to your own rules inside GEM Time — rounding, grace periods, breaks, overtime and night allowances — so the hours your supervisors approve are the hours payroll pays. The clock is the front door; the rules live in the system.

Rides out a power cut

A 7.4 V / 2,000 mAh battery, fast-charged in five hours. When the power drops the clock keeps taking punches instead of leaving a hole in the timesheet.

Face in under a second

Infrared facial recognition identifies a person in less than one second and keeps working in the dark, alongside an optical fingerprint reader with live finger detection.

Doors as well as hours

Two relays for a lock, a bell or an alarm, two Wiegand inputs and two auxiliary inputs — one terminal covering attendance and access at the same entrance.

Clocking

- **Fingerprint** — touch-based optical reader with high-performance live finger detection, up to 20,000 templates.
- **Face** — 20,000 visible-light or 6,000 near-infrared templates. Infrared identifies a person in less than one second and keeps working in the dark.
- **Card** — 10,000 cards. Multi-frequency reader for 125 kHz, 134.2 kHz and 13.56 MHz, including NFC and EM4100 proximity cards. A QR code reader can be fitted.
- **Keypad** — on-screen keypad with speaker and microphone for a PIN, a job code or a spoken prompt.
- **One million transactions** — stores up to one million transactions locally and synchronises them when connectivity returns.

Getting the hours to GEM Time

- Punches arrive in GEM Time directly over the network — gigabit Ethernet or dual-band Wi-Fi.
- Employees, departments and pay rules are pushed from GEM Time to the terminal, so a new hire can clock the day they start without anyone walking to the clock.
- Templates are held encrypted and move only over HTTPS. Enrolment can be done at the terminal or pushed from the system.
- Approved hours leave GEM Time for your payroll package through the open API, or as a file in the format your provider accepts.

At the door as well as the timesheet

- Two relays for a door lock, a bell or an alarm, and two auxiliary inputs.
- Two Wiegand inputs and two programmable LED indicators for an existing access-control installation.
- Access per clock: an employee is tied to the terminals they are allowed to use.

Where it fits. The LTIMA7 is the terminal for a site that needs a door driven, a gigabit network and a clock that survives a power cut. Where a clock stays indoors on one wall and only ever needs a finger, a face or a card, the LTIMA5 is the cheaper and entirely adequate choice. For a yard, a gate or a site with no cable and no shelter, the LTIMA7P adds 4G, an IP66 housing and a 7,600 mAh battery. All three report into the same system — you can mix them across locations.

Technical specifications

Model & platform

Model	LTIMA7 — biometric time clock
Display	7-inch TFT LCD, capacitive touch, 1024 × 600, 16:9.6
Processor	8-core
Operating system	Android
Memory	2 GB RAM · 16 GB ROM · micro SD card slot
Audio	Speaker and microphone · on-screen soft keypad

Biometrics & capacity

Fingerprint	Touch-based optical reader with live finger detection — 20,000 templates
Face	Infrared facial biometric — 20,000 visible light · 6,000 near-infrared
Card	10,000
Transactions	1,000,000
Recognition speed	Under one second (infrared face)

Card & reader technology

Frequencies	125 kHz · 134.2 kHz · 13.56 MHz, including NFC
Card types	EM4100 series proximity cards · passive proximity / RFID responder
QR code	QR code reader available as a module

Communication

Ethernet	10 / 100 / 1000 Mbps
Wi-Fi	Certified dual band 2.4 GHz / 5 GHz · 802.11 a/b/g/n/ac
Other	USB 2.0 · Wiegand

Access control interface

Relays	2 — alarm, bell, external lock
Auxiliary inputs	2
Wiegand inputs	2
Indicators	2 programmable LED indicators

Power, housing & support

Power

AC adaptor	12 V · 3.0 A
Power over Ethernet	PoE+ IEEE 802.3at · power class 0–4 · max. current 720 mA · PSE voltage 50–57 VDC · max. power 30 W (PSE and PD) · PD input voltage 48 V
Battery	7.4 V · 2,000 mAh · charge voltage 8.4 V · normal charge 8 hours · fast charge 5 hours

Environment & housing

Position	Indoor wall mount. No water or dust rating — for an outdoor position use the LTIMA7P.
Operating temperature	0 °C to 45 °C (32 °F to 113 °F)
Operating humidity	5% to 80%, non-condensing
Width	19.6 cm (7.75 in) base · 31.3 cm (12.33 in) fully configured
Height & depth	14.41 cm (5.68 in) high · 7.52 cm (3 in) deep
Weight	1.3 kg (2.9 lbs)

Modules

Fitted to order	Face module · optical fingerprint reader · multi-card reader · QR code reader. Barcode and magnetic-stripe readers can be added against a minimum order quantity. The terminal is configured for the combination you need — you do not pay for readers you will not use.
-----------------	--

Delivered and supported by GEM IT Solutions

- **Installed on site** — mounting, network, enrolment, and monitoring and support during the first week of operation, in Curaçao.
- **Extended Service Agreement** — repair or replacement under the terms of the Extended Service Agreement, firmware updates, remote diagnosis and a loaner clock while yours is in for repair.
- **Local support after go-live** — remotely and on site, in your own time zone, in English, Dutch, Spanish or Papiamentu.
- **One system across locations** — mix LTIMA5, LTIMA7 and LTIMA7P terminals; they all report into the same GEM Time account.

Request a demonstration or a configuration quote

We will show you the LTIMA7 working against your own shift pattern, and quote the terminal configured with the readers you actually need — including training and the Extended Service Agreement.

+599 (9) 528-0144 · gmerien@gem-itsolutions.com · www.gem-itsolutions.com

Specifications. Figures are those of the terminal as supplied at the date of this sheet and may be changed without notice. Capacities are maximums and depend on the modules fitted. Ask us for a written confirmation of the configuration before you order.