

Nimbio Cellular Access Controller

A cellular-first, low-voltage retrofit controller for gate operators, commercial doors, garage doors, maglocks, and electric strikes. Wires in parallel to existing dry-contact inputs — no network infrastructure required. For professional installers, integrators, and low-voltage technicians specifying or wiring a Nimbio unit.



Electrical & Power

Operating Voltage	6.5V AC/DC – 24V AC/DC
Operating Current (@24VDC)	40mA – 70mA nominal (2.4W peak)
Relay	Premium Omron, rated minimum 50,000,000 operations
Relay Rated Load	1A at 125VAC or 60VDC

Environmental

Operating Temperature	-40°C to +85°C (-40°F to 185°F)
Storage Temperature	-50°C to 125°C (-58°F to 257°F)
Enclosure	Fits inside standard gate operator cabinets. External NEMA weatherproof enclosure available for legacy/external-mount operators.

Cellular & Connectivity

SIM Card & Plan	Included — nationwide multi-carrier cellular coverage. No separate SIM plan, carrier activation, or data bill.
Carrier Selection	Automatic — connects to the strongest available signal across AT&T, Verizon, and T-Mobile
Cellular Outage Behavior	Existing clickers, keypads, and fobs are unaffected (parallel wiring). Optional admin-enabled failsafe: on loss of connectivity the controller holds the gate open until the connection is restored.
Open Latency	~1 s for most users from app tap to relay fire (1–2 s typical, depending on the user's phone connection)
Cellular Bands	LTE-FDD, LTE-TDD, UMTS/HSDPA/HSPA+, GSM/GPRS/EDGE B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B34/B38/B39/B40/B41
Antennas	2dBi / 5dBi+ GSM 2.4G/4G/5G rubber antenna — SMA straight or SMA L-type connector
Bluetooth	One-time device provisioning only (~60 seconds via the Nimbio Installer App), never used during normal operation. Local Bluetooth failover for cellular outages is in active development — not yet shipped.
Firmware Updates	Automatic, over-the-air (OTA) via the cellular connection — no USB, no service call

Installation

Wiring Method	7-wire parallel connection to the operator's existing dry-contact input — no rip-and-replace; existing clickers, keypads, and fobs continue to function
Provisioning / Install Time	~60 seconds via Bluetooth (Installer App, iOS & Android); under 30 minutes total for a single gate
Compatible Gate Operators	Any operator with a dry-contact relay input at 6.5V–24V — LiftMaster, Linear, Ghost Controls, Viking, Eagle, Nice Apollo, All-O-Matic, DoorKing (DKS), Mighty Mule, USAutomatic, FAAC, HySecurity, BFT, Ramset, Topens, Elite, and others. Swing, slide, and vertical-lift types.

Certifications & Compliance

Modem Approvals	RoHS, REACH, CE (RED), JATE, Telec, FCC, RCM, GCF, PTCRB, IC — carrier-approved on AT&T, Verizon, T-Mobile, US Cellular
UL Compliance	Not UL Listed. A strictly low-voltage Class 2 peripheral acting as a dry-contact trigger — does not alter or bypass the operator's own safety mechanisms (e.g. UL 325 entrapment protection), so it has no impact on the host system's compliance.

Security & Commercial Terms

Network Isolation	Cellular-only — never touches the property's LAN or Wi-Fi. SSL/TLS encrypted, enterprise-grade cloud infrastructure.
Access Management	Per-user digital keys with scheduled expiration and instant revocation; full access logs; GuestView visitor video verification
Hardware Price	\$299 MSRP, one-time (per controller/gate)
Subscription	Residential: flat-rate per home, unlimited users. Commercial: flexible per active user. Covers cellular data, platform, support, OTA updates.
Warranty	Lifetime — prompt replacement if the controller ever stops working for any reason

