RFID ACCESS CONTROL · TOP-MOUNTED ANTI-THEFT

Gate 4434

Phased-Array Overhead RFID Anti-Theft Gate



The **Gate 4434** is a top-mounted UHF RFID access control gate with a built-in **phased-array antenna and positioning algorithm** that accurately distinguishes inner from outer tags — eliminating the false reads that plague conventional pedestal gates.

Mounted overhead at 2.5–4 m, it covers a 2.5–3 m doorway with no floor hardware. An integrated alarm light and buzzer deliver real-time audible-visual alerts, with EAS-server and online/offline alarm support.

2.5–4 m	2.5–3 m	33 dBm	≤50 W
MOUNT HEIGHT	PASSAGE WIDTH	ADJUSTABLE POWER	RATED POWER

KEY FEATURES

Phased-array antenna
Built-in positioning algorithm accurately distinguishes inner vs. outer tags.

Audible & visual alarm
Built-in alarm light and buzzer with EAS-server, online & offline alarms.

Cloud & app managed
Independently developed — supports cloud management platform and mobile debugging app.

Strong multi-tag reading
High-volume batch reads with low missed-read and false-read rates.

TECHNICAL SPECIFICATIONS

Full Datasheet

RFID PERFORMANCE

Identification	UHF RFID
Frequency range	865–868 MHz, 902–928 MHz
Transmit power	5–33 dBm, adjustable
Chip	Impinj E710
Protocol standard	ISO 18000-6C (EPC C1 Gen2)
Reading distance	0–2.4 m
Antenna	Built-in phased array + positioning algorithm
Function	Audio & visual alarm

SYSTEM & CONNECTIVITY

Operating system	Embedded / Linux / Android
Communication	RJ45 Ethernet, Wi-Fi
Debugging	Cloud management platform + mobile app
Alarm modes	EAS server · online & offline · combined events

MECHANICAL & ELECTRICAL

Dimensions	435 × 340 × 78.2 mm
Material	Acrylic + metal
Power input	AC 220 V / 50 Hz
Rated power	≤ 50 W
Installation	Height 2.5–4 m · ceiling or rope mounting
Passage coverage	2.5–3 m width

ENVIRONMENT

Operating temp.	−20 °C to +60 °C
Storage temp.	−30 °C to +70 °C
Ambient humidity	5–95% RH, non-condensing

WHY TOP-MOUNTED

- Zero floor footprint — no pedestal gates to obstruct the entrance
- Direction-aware reads cut false alarms in busy doorways
- Fast, low-cost ceiling or rope installation

APPLICATION AREAS



- Retail clothing & footwear anti-theft
- Warehouse in-and-out access control
- Library & archive borrowing control
- Asset loss-prevention at building entrances

RFID·BG

Talk to Bulgaria's RFID team

End-to-end deployment: consulting, hardware, software, install & support.

CONTACT

+359 886 71 85 45

office@rfid.bg

rfid.bg

25 Charles Darwin Str., 1113 Sofia