UHF RFID · 865–868 MHZ · INTEGRATED READER

IF9A

A UHF reader and a 9 dBi antenna in one IP68 housing, for gates and dock doors.

EPC Gen2 | 9 dBi built-in antenna | IP68 | 3 relays | BIS and WPC approved

One unit per read point, no antenna cable.

The **Identium IF9A** puts a UHF RFID reader and a 9 dBi circular antenna in one IP68 housing, 260 × 260 mm. It reads EPC Gen2 tags at 1–25 m, depending on the tag, mounting and site, with the E310 reader IC (up to 250 tags/s) or, as the IF9E, the E710 (up to 1,000 tags/s).

Fix one unit on a pole or wall at a gate, parking lane or dock door. It posts reads to your web server over HTTP, switches a boom barrier through its 3 relays, and comes in RJ45, PoE, Wi-Fi and 4G versions.



1–25 m	9 dBi	1,000/s	IP68	3
Read range, tag dependent	Built-in circular antenna	Tags per second (E710)	Housing rating	Relays: barrier, siren

WHAT IS INSIDE

Reader, antenna and gate control in one box

READ
9 dBi integrated front end

- EPC Gen2 (ISO 18000-6C), 865–868 MHz India build
- 1–25 m, depending on tag, mounting and site
- Reads EPC, TID and User memory
- RF power 0–30 dBm, adjustable

CONNECT
RJ45, PoE, Wi-Fi or 4G

- Interfaces: RS232, USB, Wiegand 26, TCP/IP
- PoE, Wi-Fi or 4G, depending on the version
- Direct HTTP POST to your web server
- 1,000-tag storage on the IF9AP, IF9AW and IF9A4GS

CONTROL
Relays and feedback

- 3 relays: boom barrier, turnstile or siren
- Active mode reports reads from power-up
- Answer mode waits for your commands
- Buzzer as standard; red and green LEDs optional

WHERE IT WORKS

Where one read point covers the lane

Vehicle gates
Boom barriers and entry lanes

Toll and parking
Entry and exit lanes

Dock doors
Warehouses, container hubs

Waste collection
Tagged collection trucks

Production lines
Conveyors and laundry

Access control
Staff and vehicle access

HOW IT WORKS

From tag to your server, at one read point

Tag
EPC Gen2 tag on a vehicle, carton or person, 1–25 m away

IF9A
INTEGRATED UHF READER
- Read EPC, TID and User memory
- Active mode: report every read
- Answer mode: wait for a command
- Switch a relay on a tag read
- Sound the buzzer on each read

Network
RJ45, PoE, Wi-Fi or 4G by version; RS232, USB or Wiegand 26

Your server
HTTP POST to your web server; the reader name shows which gate

SDKs, PC app and manuals
SDKs for .NET, Java, Linux, Python, Arduino and Raspberry Pi; app, SDK and manuals on the Identium downloads page.

WHY THE IF9A

Built for gates, lanes and dock doors

Reader and antenna in one
The 9 dBi circular antenna is built in, so one unit on a pole or wall covers the read point, with no coaxial cable to run.

Two reader ICs
The E310 reads up to 250 tags/s for gates and parking; the E710 (IF9E) reads up to 1,000 tags/s for dock doors and conveyors.

IP68 housing
Dust-tight and protected against water immersion. Works from –10 °C to +55 °C at outdoor gates and industrial sites.

Direct HTTP POST
Reads go straight to your web server or cloud application, with no PC or middleware at the read point.

A name in every reader
Set a unique name in each unit, so your server knows which gate or door every read came from.

3 relays
Switch a boom barrier, turnstile or industrial siren on a tag read; your software decides which tags pass.

1,000-tag storage
The IF9AP, IF9AW and IF9A4GS keep up to 1,000 reads in the reader while the network is down.

TID as well as EPC
Each read can carry EPC, TID and User memory, so software can check a tag's factory TID too.

READER IC

Two chips, one housing

	IF9A	IF9E
Reader IC	Impinj E310	Impinj E710
Read speed	Up to 250 tags/s	Up to 1,000 tags/s
Air interface	ISO 18000-6C (EPC Gen2)	ISO 18000-6C (EPC Gen2), Gen2X
Tag memory	EPC, TID and User	EPC, TID and User

Impinj and Gen2X are trademarks of Impinj, Inc. Housing, antenna, range and versions are the same for both.

AT A GLANCE

- BIS and WPC approved (the IF9A, with the E310 chip)
- Posts reads to your server over HTTP: no PC at the gate

BEFORE YOU ORDER

- Choose the version by connection: RJ45, PoE, Wi-Fi or 4G
- Choose the reader IC: E310 (IF9A) or E710 (IF9E)
- Test with your own tags before fixing the mounting position

ORDERING

IF9AS	RJ45 Ethernet, RS232, 3 relays.
IF9AP	PoE, RS232, 3 relays, tag storage.
IF9AW	Wi-Fi, RJ45, RS232, 3 relays, tag storage.
IF9A4G(S)	4G, RS232, 3 relays; 4GS adds storage.

SPECIFICATIONS

Technical data

RF AND TAGS	
Frequency	865–868 MHz (India build; other bands on request)
Protocol	ISO 18000-6C (EPC Gen2)
Reader IC	Impinj E310 (IF9A) or Impinj E710 (IF9E)
Read speed	Up to 250 tags/s (E310) or 1,000 tags/s (E710)
Antenna	Built-in 9 dBi, circular polarised
RF power	0–30 dBm, adjustable
Read range	1–25 m (depends on tag, mounting and environment)
Memory	Reads EPC, TID and User memory

INTERFACES AND CONTROL	
Interfaces	RS232, USB, Wiegand 26, TCP/IP
Network	RJ45, PoE, Wi-Fi or 4G, by version
Outputs	3 relays
Tag storage	1,000 tags (IF9AP, IF9AW, IF9A4GS)
Data	Direct HTTP POST; reader name set in each unit
Work modes	Active (plug and play), Answer (command)
Indication	Buzzer; red power and green read LEDs optional
SDK	.NET, Java, Linux, Python, Arduino, Raspberry Pi

POWER AND APPROVALS	
Supply	9–24 V DC; 5 V over USB
Approvals	BIS and WPC approved (IF9A, E310 chip)

MECHANICAL AND ENVIRONMENT	
IP rating	IP68
Operating temp.	–10 °C to +55 °C
Storage temp.	–20 °C to +75 °C
Dimensions	260 × 260 × 60 mm
Weight	2 kg (3 kg packed; carton 400 × 300 × 100 mm)

WHICH IF9A?

The IF9A family

	IF9A	IF9A-2P	IF9A-4G	IF9A-WIFI
Connection	RJ45, PoE, Wi-Fi or 4G by version; RS232, USB, Wiegand 26	USB, RS232, Wiegand, RJ45, Wi-Fi, PoE or 4G, as options	Built-in 4G with SIM slot; RS232	Wi-Fi, RJ45 Ethernet, RS232
Antenna	Built-in 9 dBi	Built-in 9 dBi + 1 external antenna port	Built-in 9 dBi	Built-in 9 dBi
Read range (tag dependent)	1–25 m	Up to 25 m	1–25 m	1–25 m
Reader IC	E310 or E710	E310 or E710	E310 or E710	E310 or E710
Relays	3	Optional	3	3
Best for	Wired gates, parking lanes, dock doors	Wide gates and two-sided doors	Remote sites with no LAN	Sites with Wi-Fi but no cable

Tell us the gate and the tag.

Ask for a quotation with the version (RJ45, PoE, Wi-Fi or 4G), the reader IC and the quantity. Tell us the tag and the mounting height, so we can check the read range for your site.

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Read range depends on the card or tag, its size and the environment. Specifications are indicative and may change without notice; confirm details for your order in the quotation.