

EDGE-30R+ AutoID

AutoID integrated reader for vehicle access control operations



The HID Acura EDGE-30R+ AutoID is a high-performance UHF RFID reader designed for tag reading applications, primarily targeting vehicle access control.

This advanced reader features automatic tag reading capabilities, providing real-time results to any application or controller through its communication protocols, including Ethernet TCP/IP, Wiegand, Abatrack, and Serial RS-232.

The EDGE-30R+ AutoID stands out with its integrated antenna, making installation a breeze and eliminating the hassle of RF cables. Moreover, the EDGE-30R+ offers a user-friendly configuration interface accessible through an HTML page.

The AutoID reader also features the “AutoID Secure System,” developed by HID Acura. This innovative feature ensures that only tags with Acura’s Secure Code (ACS) are recognized by the reader, significantly enhancing security for vehicle access control application.

In addition, the EDGE-30R+ AutoID offers a simple installation process. To complete the setup, use two standard network cables: one for power and Ethernet communication through PoE (Power Over Ethernet) and the other for communication, input, and relay functions.

Alternatively, you have the choice to utilize a PoE injector that adheres to the same standard, offering added flexibility in your configuration.

This reader’s advanced features and simplified installation process make it an ideal choice for efficient and secure vehicle access control operations.



KEY BENEFITS:

- All-in-one design includes an integrated antenna and reader
- Plug-&-play reader offers automatic reading to ensure effortless integration
- Compact and robust with an IP65 rating, designed for external installation

KEY TECHNOLOGY HIGHLIGHTS:

RAIN® RFID (UHF)

- 902 – 907 MHz and 915 – 928 MHz (BR)
- 902 – 928 MHz (US)
- 915 – 921 MHz Upper ETSI

TYPICAL APPLICATION AREAS:

- Access control
- Gas station payment
- Truck fleet management
- Railcar control
- Drive-thru payment
- Fuel pump control

	EDGE-30R+ AutoID Reader
Base Model Number	100.705 (EU) 100.704 (US)
	ELECTRONIC
Regulation	(BR) - 902–907 MHz & 915–928 MHz (ANATEL) (US) - 902–928 MHz (FCC) (EU) - 916.3 MHz, 917.5 MHz, 918.7 MHz
RF Output Power	From 0 to 30 dBm with 0.5 dBm increment
Reading Distance¹	Up to 19.7 ft (6 m)
Physical Interface	PoE connector: Ethernet 10/100 Mbps (1.5 kV RMS insulation) PoE (IEEE 802.3af standard) PoE modes supported: • Mode A (mixed DC & data) • Mode B (DC on spares) SIG connector: 1x Optically isolated digital input: • 1 kV RMS insulation • Supports Dry Contact, NPN (Sinking), and PNP circuit (Sourcing). Minimum pulse width: 100 ms. • High Level (3.0 to 24.0 VDC), Low Level (0 to 2.0 VDC) 1x optically isolated Digital Output: • 1 kV RMS insulation • Controlled by tag reading or / and ASCII commands • High Level (5.0 VDC), Low Level (0 VDC)
Communication Protocols	Ethernet: Data rate: 10/100 Mbps (1.5 kV RMS insulation); Wiegand / Abatrack: Wiegand 26 and 34 bits; Abatrack (Magstripe) 10 and 14 digits, 1.0 kV. RMS galvanic isolation, current limit 100 mA (connected); RS-232 Serial: Communication speed from 9600 to 115200 bps. Galvanic isolation of 1.0 kV RMS.
Programming	Does not require software development using API / SDK. With a simple socket connection, the tag read results can be processed.
	POWER
Power	IEEE 802.3af Powered Device (PD) PD Power Class: Class 3, 12.95 W Operating PoE Voltage: 37 VDC to 57 VDC
Consumption	Max. 15 W. with max. power and high duty cycle
AC Power Cord (PoE Injector)	Europe: Type F USA: Type B
	PHYSICAL
Dimensions	8.66 x 8.66 x 5.03 in (220 x 220 x 128 mm) with Cable Plug Jacket
Mounting Method	Equipped with mounting support on the back side for poles (Ø 1" to 1.75" (~25 to 44 mm) and 1.75" to 3" (~44 to 76 mm) or flat surfaces (wall)
Integrated Antenna	Patch circular polarized antenna with 7.5 dBic of gain (RHCP)
Color	White
Weight	45.38 oz (1.4 kg)
	CHEMICAL AND MECHANICAL
Water	IP65 (RJ45 ingress protection cover and cable plug jacket included)
Humidity	95%
	THERMAL
Storage	+14° to +158° F (-10° to +70° C)
Operating	+14° to +149° F (-10° to +65° C)
	OTHER
Standards	ISO 18000-6C (EPC Gen2)
Options	Accessories: Interface board
Warranty	2 years

1 The reading distance can vary depending on the tag model, usage mode, and environment.

Countries	Part Number	Description
Belarus	100.705	EDGE-30R+ PoE AutoID Serial RS-232 UHF Reader Combo (PoE Injector 15 W 48 V)
Finland	100.692	EDGE-30R+ PoE AutoID Serial RS-232 UHF Reader Combo (PoE Injector 15 W 48 V) (Interface Board)
Montenegro	100.701	EDGE-30R+ PoE AutoID Wiegand / Abatrack UHF Reader Combo (PoE Injector 15 W 48 V)
Bosnia and Herzegovina	100.690	EDGE-30R+ PoE AutoID Wiegand / Abatrack UHF Reader Combo (PoE Injector 15 W 48 V) (Interface Board)
France		
Georgia		
Macedonia		
Hungary		
Norway		
Croatia		
Iceland		
Portugal		
Cyprus		
Ireland		
Slovenia		
Czech Republic		
Latvia		
Spain		
Luxembourg		
Switzerland		
Denmark		
Malta		
United Kingdom		
Estonia		
Moldova		
	Accessories	
	100.699	Interface Board EDGE-30R+
	100.698	PoE Injector 802.3AF 15 W 48 V
United States of America (USA)	100.704	EDGE-30R+ PoE AutoID Serial RS-232 UHF Reader Combo (PoE Injector 15 W 48 V)
	100.691	EDGE-30R+ PoE AutoID Serial RS-232 UHF Reader Combo (PoE Injector 15 W 48 V) (Interface Board)
	100.700	EDGE-30R+ PoE AutoID Wiegand / Abatrack UHF Reader Combo (PoE Injector 15 W 48 V)
	100.689	EDGE-30R+ PoE AutoID Wiegand / Abatrack UHF Reader Combo (PoE Injector 15 W 48 V) (Interface Board)
	Accessories	
	100.699	Interface Board EDGE-30R+
	100.697	PoE Injector 802.3AF 15 W 48 V
Brazil*	100.644	EDGE-30R+ PoE AutoID Wiegand / Abatrack UHF Reader
	100.645	EDGE-30R+ PoE AutoID Serial RS-232 UHF Reader
	Accessories	
	100.647	Interface Board EDGE-30R+
	100.655	PoE Injector 802.3AF 15 W 48 V



* Other brazilian bundles available, please contact us for more information.

