

# 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.

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

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

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

| Countries                                                                           |            |                 | Part Number        | Description                                                                                         |
|-------------------------------------------------------------------------------------|------------|-----------------|--------------------|-----------------------------------------------------------------------------------------------------|
| Belarus                                                                             | Finland    | Montenegro      | 100.705            | EDGE-30R+ PoE AutoID Serial RS-232 UHF Reader Combo (PoE Injector 15 W 48 V)                        |
| Bosnia and Herzegovina                                                              | France     | North Macedonia | 100.692            | EDGE-30R+ PoE AutoID Serial RS-232 UHF Reader Combo (PoE Injector 15 W 48 V) (Interface Board)      |
| Bulgaria                                                                            | Georgia    | Norway          | 100.701            | EDGE-30R+ PoE AutoID Wiegand / Abatrack UHF Reader Combo (PoE Injector 15 W 48 V)                   |
| Croatia                                                                             | Hungary    | Portugal        | 100.690            | EDGE-30R+ PoE AutoID Wiegand / Abatrack UHF Reader Combo (PoE Injector 15 W 48 V) (Interface Board) |
| Cyprus                                                                              | Iceland    | Slovenia        | <b>Accessories</b> | Interface Board EDGE-30R+                                                                           |
| Czech Republic                                                                      | Ireland    | Spain           | 100.699            | PoE Injector 802.3AF 15 W 48 V                                                                      |
| Denmark                                                                             | Latvia     | Switzerland     | 100.698            |                                                                                                     |
| Estonia                                                                             | Luxembourg | United Kingdom  |                    |                                                                                                     |
|    |            |                 | 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) |
|                                                                                     |            |                 | <b>Accessories</b> | Interface Board EDGE-30R+                                                                           |
|    |            |                 | 100.699            | PoE Injector 802.3AF 15 W 48 V                                                                      |
|                                                                                     |            |                 | 100.697            |                                                                                                     |
|                                                                                     |            |                 | 100.644            | EDGE-30R+ PoE AutoID Wiegand / Abatrack UHF Reader                                                  |
|                                                                                     |            |                 | 100.645            | EDGE-30R+ PoE AutoID Serial RS-232 UHF Reader                                                       |
|  |            |                 | <b>Accessories</b> | Interface Board EDGE-30R+                                                                           |
|                                                                                     |            |                 | 100.647            | PoE Injector 802.3AF 15 W 48 V                                                                      |
|                                                                                     |            |                 | 100.655            |                                                                                                     |

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



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