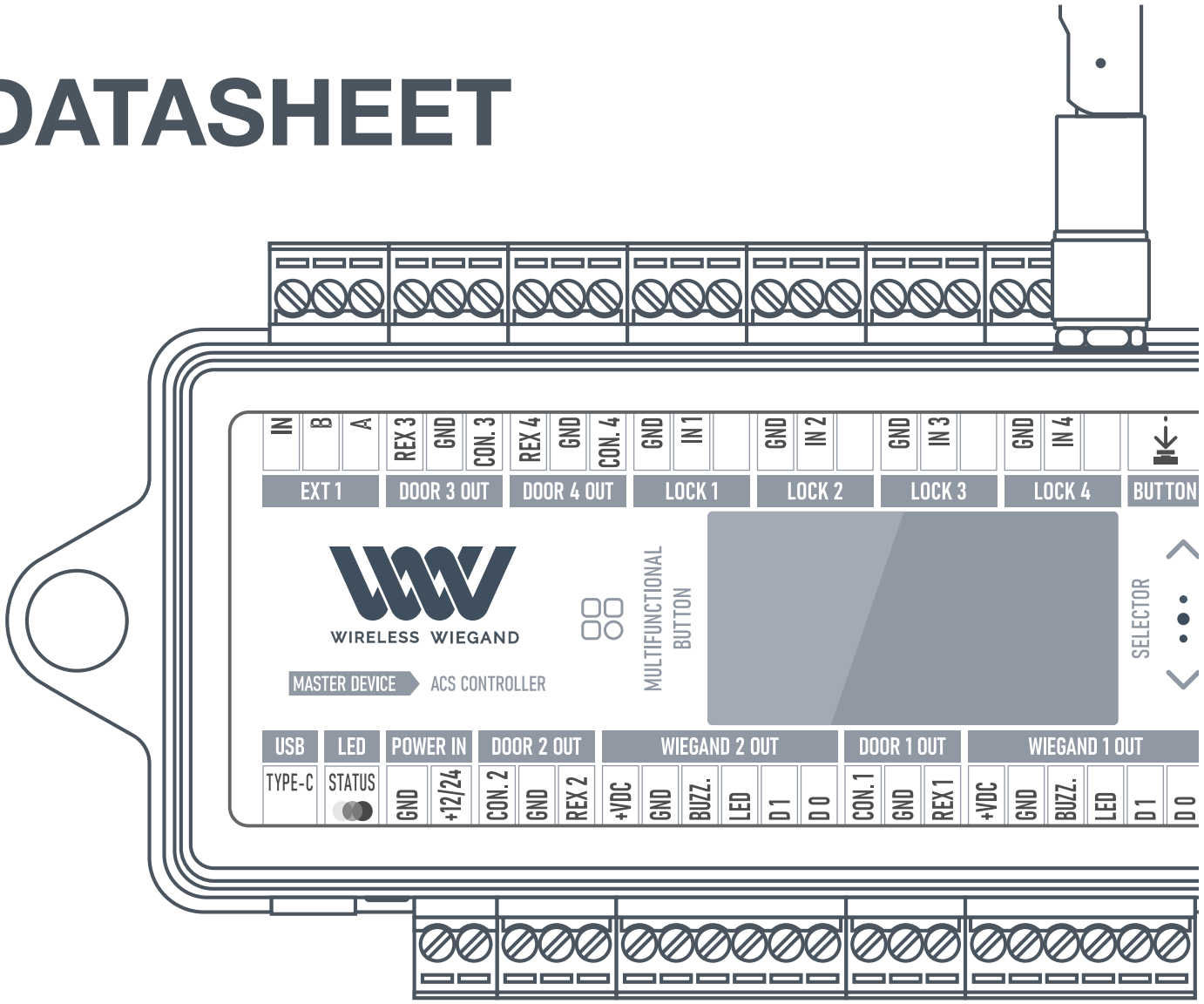
2025-08-04 Fw.v. 3.029 Hw.v. 2.09
V 3.4

Federal Communications Commissions

DATASHEET



WIRELESS WIEGAND

Wireless Wiegand replaces the cable between door-side access devices and the main control panel. It transmits low-voltage signals such as card reads, lock commands, and door status wirelessly and securely.

The system supports Wiegand, OSDP, RS-485, and relays. Communication is encrypted, interference-resistant, and built on a purposely developed protocol that delivers greater security and flexibility than traditional cabling.

When wiring is slow, costly, or impractical, Wireless Wiegand makes deployment possible in historic sites, elevators, parking lots, construction zones, and anywhere cabling isn't an option.

Device Specifications

Voltage:

- 12 or 24 VDC operation
- USB Powered for site surveys
- The voltage at the outputs is determined by the power supply.
- 0.2A @12 VDC, 0.1A @ 24 VDC current consumption

Slave device:

- **Outputs:**
  - Four (4) dry form “C” 1.5A rated relay outputs
- **Inputs:**
  - Eight (8) inputs (dry contact) from 0 to 5 VDC
  - One (1) input (dry contact) 0 to 5 VDC for local emergency relay opening

ATTENTION:

The Readers power is pass-through. If the device is powered with 24V, the readers will receive the same power.

Master device:

- **Outputs:**
  - Eight (8) outputs (dry contact) from 0 to 5 VDC
- **Inputs:**
  - Four (4) relay control inputs (dry contact) from 0 to 5 VDC

Communication interfaces:

- Wi-Fi 802.11 b/g/n 2.4 GHz
- Two (2) Wiegand ports from 4 to 80 bits
- RS-485 (OSDP)
- USB port (Type-C) for firmware update

Range:

- Tens of miles or more (depending on environment and elevation)

Encryption:

- AES128

Dimensions (L x W x H):

- 5.9" x 3.15" x 1.38" (150 x 80 x 35 mm) excluding antenna

Mounting method:

- Wall mount/Din rail mount (option)

Weight:

- 5.36 oz (152 g)

Temperature:

- Operation: -40°F ~ 149°F (-40°C ~ 65°C)
- Storage: -40°F ~ 158°F (-40°C ~ 70°C)

Relative humidity

- 5-85 % RH without condensation

Ingress protection rating:

Radio Transceiver Specifications

Transmit power:

- 1 Watt (30dBm)

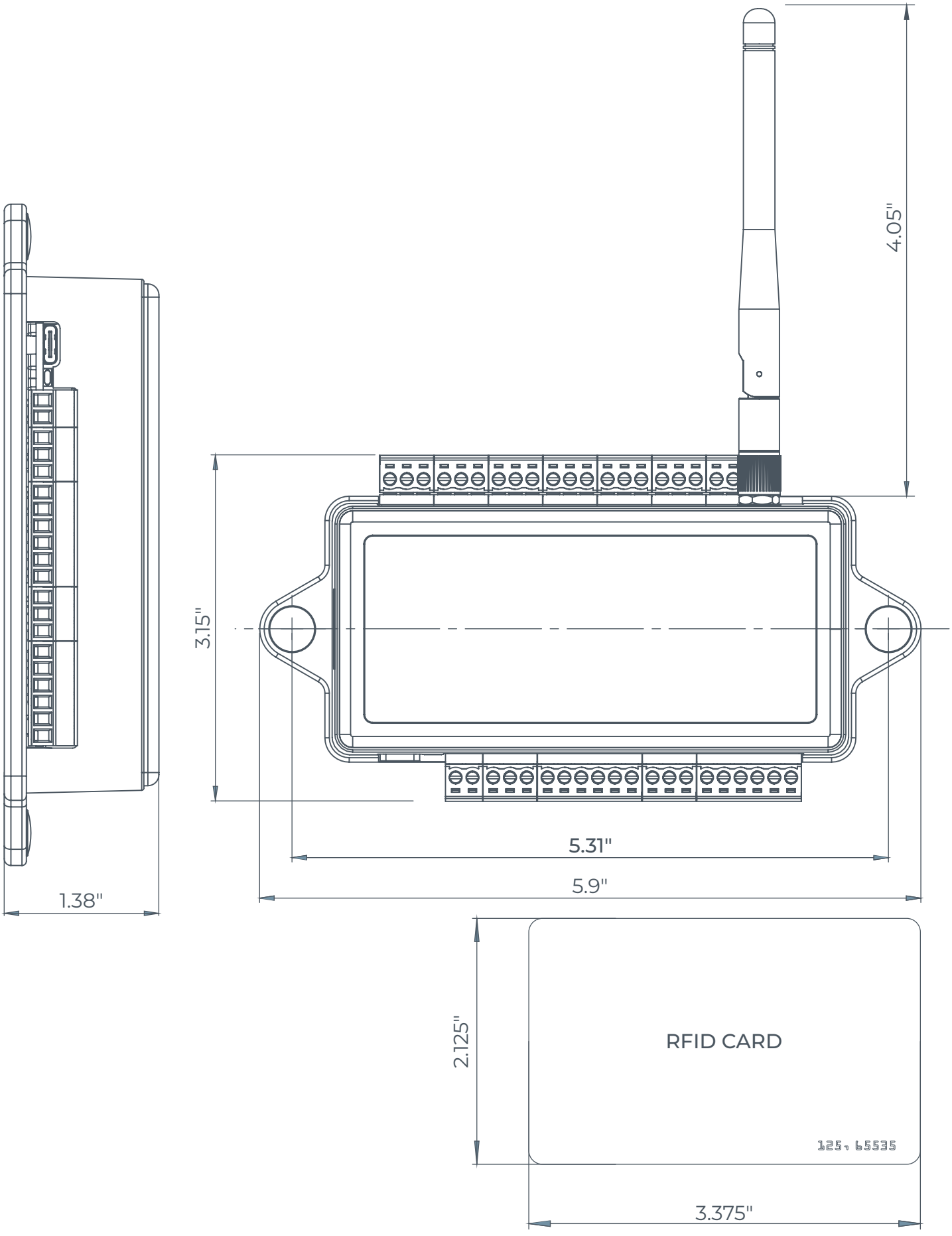
Frequency band:

- US/CA/MX - 915 MHz ISM
- EU - 868 MHz SRD
- BR - 915 MHz ISM
- AU - 915 MHz ISM
- CO - 915 MHZ ISM

Channels:

- 140 (FHSS)

Receiver sensitivity:

- -117dBm

Device Demension