



UHF-412

Long Distance Wiegand Reader

The UHF412 is a heavy-duty, integrated UHF RFID reader. Its standout feature is its massive 12-meter read range, which is significantly higher than standard "long-range" readers that typically cap at 12 meters. This makes it a premier choice for high-speed vehicle entry where the gate needs to open well before the car arrives.

The UHF412 is designed to operate as an all-in-one unit, combining the reader and the antenna into a single IP68-rated housing.

Features

Environmental Protection: The IP68 rating means it is completely airtight against dust and can be fully submerged in water. Ensuring longevity in extreme monsoon or coastal conditions.

Reading Speed: It processes tags in less than 6ms, allowing it to identify moving vehicles or fast-moving inventory on a conveyor without lag.

Dual Frequency Support: It is software-configurable to support: 920–925 MHz, 902–928 MHz

Antenna Logic: It utilizes a 12dBi high-gain antenna. Depending on your setup, it can be configured for circular polarization (better for varied tag angles) or linear polarization (better for max distance with specific tag orientation).

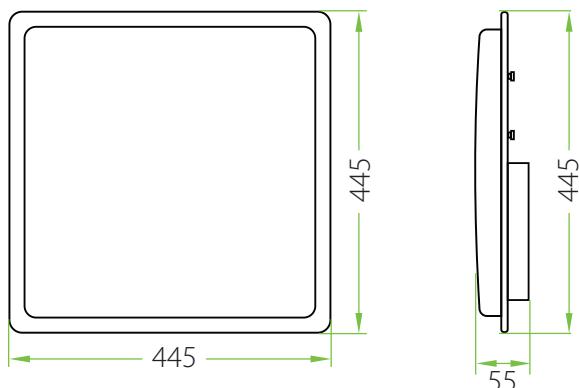
Specifications

Model	UHF412
Dimension	445*445*55(mm)
Reading Distance	0-12m
Communication Interface	Wiegand 34, USB , RS232, Inbuilt Relay,(TCP/IP Optional)
Frequency	920~925MHZ, 902~928MHz Can be Customized to Other Frequency
Reading Speed	< 6ms
Working Voltage	100-240V, DC+9V (Power Adapter)
Working Temperature	-20°C to 80°C
Storage Temperature	-40°C to 125°C
Humidity	20% RH - 95% RH Non Condensing
Interface Protocol	ISO 18000-6B, EPC Class 1 Gen2 (ISO18000-6C)
Power	1W
Humidity	20% RH - 95% RH Non Condensing
Ingress Protection Rating	IP68 (waterproof and dustproof)
Status Indication	LED Indication(Red & Green) with buzzer

Applications



Dimensions (mm)



Connection to Boom Barrier Gate



Connection to Controller

