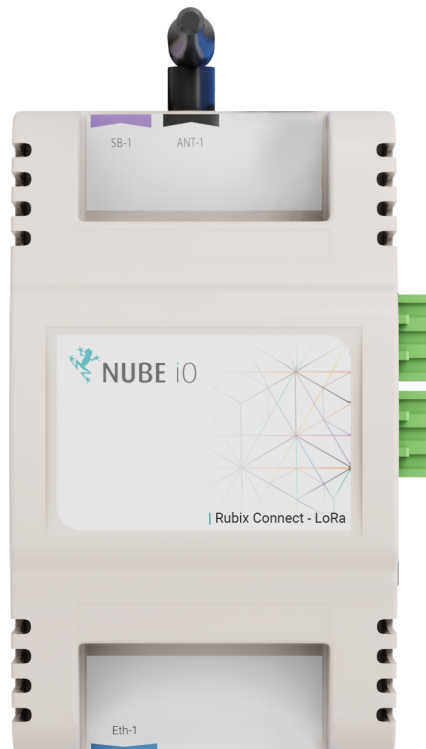


 **NUBE iO**

## Nube iO RC-LW-CON-1 Data and Specifications

**Rubix Compute LoRa WAN Receiver**



## **1. Introduction**

- 1.1 Document Availability
- 1.2 Abbreviated Terms and Definitions

## **2. Rubix Connect Specifications**

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- 2.4 Communication Options

## **3. Model Name and Definitions**

## 1. Introduction

The purpose of this document is to provide an outline of our installation of the Nube IO-LoRaWAN Connect Module

### 1.1 Document Availability


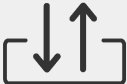



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### 1.2 Abbreviation Term and Definitions


Name/Code	Explanation	External Reference
Edge Gateway / Device	Edge Gateway	<a href="#">Link</a>
GCP	Google Cloud Platform	<a href="#">Link</a>
Edge	Edge computing is a distributed computing paradigm	<a href="#">Link</a>
IO (Input/Output)	Communication process between a computer or device	<a href="#">Link</a>
VPN	A virtual private network (VPN) extends a private network across a public network	<a href="#">Link</a>
BACnet	BACnet is a building automation protocol	<a href="#">Link</a>
MQTT	A lightweight messaging protocol for small sensors	<a href="#">Link</a>
Modbus	Modbus is a building automation protocol	<a href="#">Link</a>
NB-IoT	Low Power Wide Area Network (LPWAN) radio technology	<a href="#">Link</a>
LoRa	LoRa is a long range, low power wireless chipset and protocol	<a href="#">Link</a>
LoRaWan	LoRaWan is the network layer on LoRa	<a href="#">Link</a>
Haystack	Standardize semantic data models for IoT data	<a href="#">Link</a>
API	Application programming interface	<a href="#">Link</a>

## 2. Nube LoRaWAN Specifications

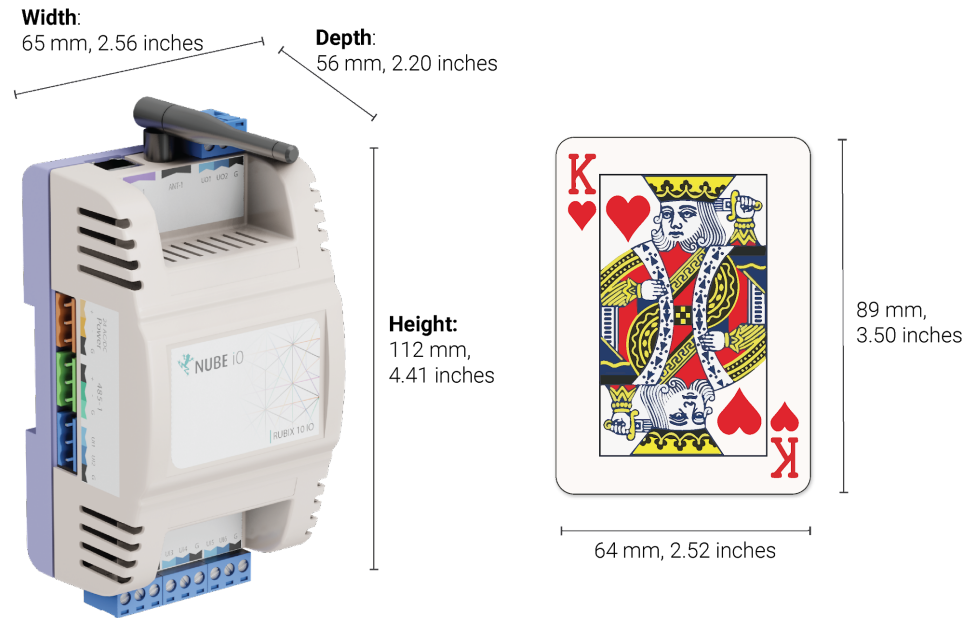
### 2.1 Basic Tech Specs

 <b>Mounting</b>	Din rail enclosure
 <b>IO</b>	N/A
 <b>Size</b>	112/65/56mm H/W/D
 <b>Protect level</b>	IP40
 <b>Power</b>	POWER over s-bus (5vdc over an RJ12 cable)
<b>Material</b>	ABS plastic
<b>Model No</b>	RC-LW-CON-1
<b>Color</b>	White with grey color base



### 2.2 Power Requirements

<b>Power Options and Requirements:</b>	
 <b>Power Via Terminal</b>	Power Supply: 5VDC supplied through the RJ12 cable from the rubix compute S-BUS

## 2.3 Physical Size



## 2.4 Communication Options

Communication Options:	Part	Comms
 <b>RJ12</b>	N/A	<b>Edge Connect R12 interface</b>  Provides power and breakout for USB, UART for add-on modules
	RAK	<b>Add in radio model</b>  <b>Supported Frequencies:</b> AU915-928 <b>Spreading Factor:</b> 6-12 <b>Bandwidth:</b> 7.8 - 500 kHz <b>Effective Bitrate:</b> 018 - 37.5 kbps <b>Est. Sensitivity:</b> -111 to -148 dBm

### 3. Model Name and Definition

Rubix Compute	RC-LW-CON-1	Rubix, LoRa WAN Connect. 1 Way Receiver
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