

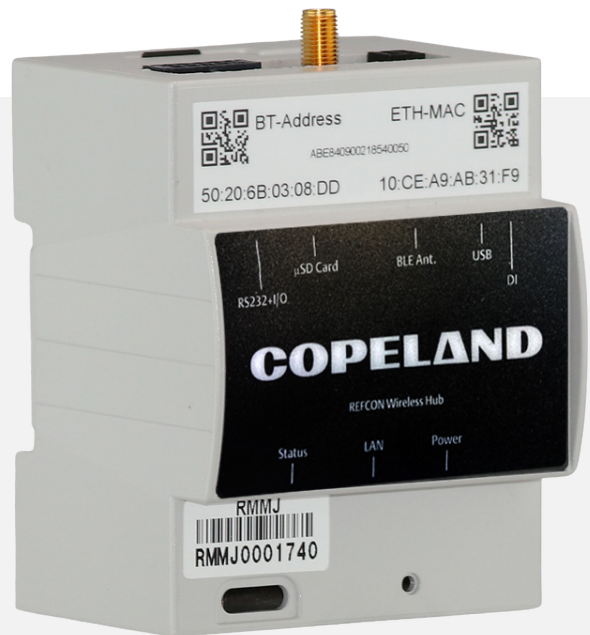
REFCON Wireless Hub

Automating site monitoring with full coverage.

- Next generation reefer monitoring infrastructure
- Bluetooth® Low Energy 5 technology with high security and range
- Supports 300 reefers per Wireless Hub
- Communication range up to 100 meters
- Enable real time monitoring of data (>3min)
- Connects to existing TCP/IP infrastructure IP4/IP6

Description

The REFCON Wireless Hub is a device used to collect data through the REFCON Portable Modem and BLE enabled devices. All data is collected automatically and sent to the local REFCON system enabling on-site technicians to obtain a clear and precise overview of the status of all reefers within the site, without being on the field. This type of monitoring solution helps to improve efficiency given that the crew on-site can focus on exception handling instead of walking the site looking for alarms on the reefers. The improved efficiency and documentation leads to better reaction time for critical issues that potentially could have been missed and lead to cargo damage.



REFCON Portable Modem

The REFCON Wireless Hub is installed near the reefers that are to be monitored. A hub is placed in each bay or every second bay, as the range of the wireless communication out to the reefers is 100 meters in line of sight.

The system is designed to, but not limited, gather data from 300 reefers per Wireless Hub, which is more than enough to manage a standard size stack or bay.

In addition to collecting data from reefers The REFCON Wireless Hub also supports commands such as setpoint changes. Given the potential risks by enabling a wireless system to send commands on reefers with high value cargo, our solution is built on the newest security standards within this area.

This helps ensure all communication is encrypted with key protection leaving it nearly impossible for external threats to be able to penetrate the system.



Data Sheet

Environmental Specifications	
Operation temp.	-30°C to +55°C
Humidity	Max 95%RH non-condensing
Ingress Protection	IP21
Shock	10G @10ms (60068-2-27 Ea) 50G non-operating
Vibration	5 - 500 Hz, 2g, 3 axes

Physical Dimensions	
Length	87 mm
Width	69 mm
Height	62 mm
Weight	175 g

Certifications	
CE - Europe	EMC Directive 2014/30/EC Low Voltage Directive 2014/35/EC RED Directive 2014/53/EC RoHS Directive 2011/65/EC WEE Directive 2002/96/EC
FCC - USA	Contains FCC-ID: 2ARHA-C0001
KC - Korea	Contains R-C-E45-8214-100

Electrical Specifications	
Power supply	24Vac RMS + 10/-30% 16-37 Vdc

Supported Reefer Controllers	
Carrier	Microlink 3 Microlink 5
Daikin	DECOS III (3), c, d, e, f, g, h, j DECOS V (5), Va, Vb
Star Cool	RCCU5 SCC-6
Thermo King	MP-3000 MP-4000

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