LEO-D31

2.9" ePaper Display with Sub-1GHz Communication



Features

- 2.9" ePaper display with black, white, and red ink
- Sunlight-readable display with 180-degree viewing angle
- Supports data transmissions via Sub-1GHz communication
- Display tags for roaming and location positioning applications •
- Cableless design ensures quick installation
- Battery supports operation for 5 years (10 updates per day)
- Equipped with a display fastener for various fixed solutions

Introduction

LEO-D31 is an ePaper display that represents a new generation of environmentally friendly products. Designed to replace printed paper, the LEO-D31 ePaper display is a low-power information display solution equipped with Sub-1GHz communication that allows the display content to be synchronously updated. The embedded Sub-1GHz protocol offers excellent signal penetration for long-range transmissions and supports roaming for positioning applications. Moreover, with its minimal power consumption, the LEO-D31 ePaper display is ideal for IoT applications, such as factory storage, hospital medicine cabinets, and UD carts.

Specifications

| Display Size | 2.9" |
|-----------------------|---|
| Display Area | 66.9 x 29.06 mm (2.63 x 1.41 in) |
| Display Colors | Black, white, and red |
| Resolution | 296 x 128 pixels |
| DPI | 112 |
| Dimensions | 92.6 x 45 x 10.3 mm (3.65 x 1.77 x 0.41 in) |
| Weight | 50 g (0.01 lb) |
| Protocol | Proprietary Sub-1GHz ISM band |
| Frenquency | 868 MHz/915 MHz |
| Power Supply | 3 x CR2032 battery |
| Operating Temperature | 0 ~ 40 °C (32 ~ 104 °F) |
| IP Rating | IP54 |
| Certifications | CE, FCC, NCC, TELEC |

Ordering Information

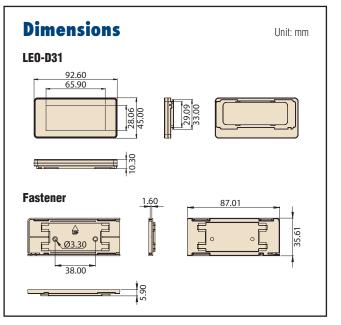
| | Display | | Comunication | | Outlook | |
|---------------|---------|-------------------|--------------|-------------------------------|----------------|-------|
| Part Number | Size | Colors | Frequency | Region | Front/ Back | Back |
| LEO-D31-R0E80 | 2.9" | Black, white, red | 868 MHz | Europe | White/Blue | White |
| LEO-D31-R0N90 | 2.9" | Black, white, red | 915 MHz | US/Japan/ China/ Taiwan | White/Blue | White |

Sub-GHz Gateway

Features

- Interface: Ethernet and wireless
- Protocol: Proprietary Sub-1GHz ISM band LED Indicators: Green (power), blue (network), red (error)
- Transmission Range: 100 meters (328 ft) line of sight
- Connection Quantity: 15 Hubs Power Supply: DC 5V1A mini USB
- Dimensions: 78 x 68 x 30.3 mm (3.07 x 2.68 x 1.19 in) excluding
- antenna Weight: 84 g (0.185 lb)
- Operating Temperature: 0 ~ 40 °C (32 ~ 104 °F)

Ordering Information



Sub-GHz Hub

Features

- Interface: Wireless
- Protocol: Proprietary Sub-1GHz ISM band LED Indicators: Green (power), blue (network), red (error)
- Transmission Range: 100 meters (328 ft) line of sight Connection Quantity: 1000 display tags Power Supply: DC 5V1A mini USB

- Dimensions: 68.5 x 49 x 33 mm (2.7 x 1.93 x 1.3 in) excluding
- antenna Weight: 60 g (0.132 lb)
- Operating Temperature: 0 ~ 40 °C (32 ~ 104 °F)

| Part Number | Туре | Frequency | Region | |
|----------------|------------|----------------------|-----------------------|--|
| USM-D62-E80 | Gateway | 868 MHz | Europe | |
| USM-D62-N90 | Gateway | 915 MHz | US/Japan/China/Taiwan | |
| USM-D64-E80 | Hub | 868 MHz | Europe | |
| USM-D64-N90 | Hub | 915 MHz | US/Japan/China/Taiwan | |
| 310TLE0D0001A0 | Middleware | LEO-D Device Manager | | |

ADVANTECH

All product specifications are subject to change without notice.

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Advantech: LEO-D31-R0N90