

DEXATEK

Smart IR Specification

Version 1.0.0



Introduction

Smart IR supports over some brands with devices such as TVs, Set Top Boxes, Air Conditioning, Video Game Consoles, Media Players which can be controlled via Infrared and it have night light function that let you can control ON/OFF wirelessly control. It also is a central unit to monitor and control variety of Dexatek smart devices such as Smart Weather Sensor, Smart LED Light, Smart Power Plug, Smart Door and Smart Smoke Sensor.

Dexatek cloud server called Σ Casa can fulfill users' need from peripheral management, scheduling, remote control and JobLink for event triggers between peripherals. The JobLink system here is designed for peripheral interconnectivity, create users' own event trigger system between peripherals.

Key Features

- Control your infrared remotes through the one device. (e.g. your TV, air conditioner or electronic curtain.)
- Control remotely with Smart IR.
- Scheduling - Auto turn off your TV when you sleep.
- Σ Casa JobLink supported - Auto turn on your air conditioner when temperature is higher than 30°C (Σ Weather)
- Wide coverage of receiving and transmission space
- Night light -Soft light is good for your eyes when you are sleeping.
- Access, manage and schedule Σ Casa peripherals by connecting to Σ Casa cloud Server (Control up to 16 peripherals)
- Smart link – setting various combination of conditions and activities to accomplish the application of IOT, let devices function autonomously

Specifications

The following is the specification for Dexatek Smart IR. For physical dimensions and see further in this document.

BLE Version	Bluetooth®5.0
BLET System On Chip	Nordic Semiconductor(Nordic nRF52832)
Memory	2MB+512K RAM / ext. Flash
Processor	ARM® Cortex®-M3 32-bit processor, 166 MHz
Wi-Fi Version	2.4GHz, 1T1R 802.11b/g/n
WiFi Security Supported	WEP, WPA, WPA2, WPS
Security Engine	MD5, SHA-1, SHA2-256, DES, 3DES, AES
Wi-Fi System On Chip	Realtek Semiconductor Corp.(Realtek 8195 AM)
BLE Antenna	Omni-directional Chip antenna with matching tuning circuitry
Wi-Fi ANTENNA	Omni-directional Chip antenna with matching tuning circuitry
Energy Consumption	nRF52832 Peak TX (0dBm) 5.3 mA; running from Flash 58 µA
Input Power	DC 5V/1A(Micro USB)
ROHS Compliant	Yes
Customisable	Colorings, branding, advertising packet and firmware possible.
IP Rating	IP 4X
Regulatory	CE FCC compliant
Operating Temperature	-5C to +45°C
Storage Temperature	-20°C to +70°C
Dimension	138 x 72 x 72 (mm)
System Required	iOS - iOS 8.0 and above with Bluetooth Low Energy(Bluetooth 4.0) Android - Android 5.0 and above on Bluetooth 4.0 Smart Ready devices ΣCasa App

LED status

Color	Status
Blue	Wifi Search Connect (1 Second flash interval)
	Connecting to Server (0.5 seconds flash interval)
	Other BLE related access(0.2 seconds flash)
	BLE scan for pairing(2 seconds flash interval)
Orange	Initial state before any setup(2 seconds flash interval)
	Smart Hub setup mode(0.2 seconds flash interval)
	Update Smart Gateway Firmware(0.2 seconds flash interval)
Red	All error(0.2 seconds flash interval)

Packaging and Accessories

- One 5V power adapter
- One Micro USB cable