

MODULAR IR BLASTER LoRaWan Gateway, IoT Controller, MODULAR IR BLASTER DATASHEET



DESCRIPTION

The Florawise Modular IR Blaster provides control over air conditioners with IR receiver module without any cable connection. Air conditioner modes can be changed, on/off, set temperature can be specified, also has built-in temperature sensors. The **Florawise Modular IR Blaster** also features 3 sensor inputs with varying sensor cable lengths in addition to the temperature and humidity sensor.





HOW DOES IT WORK

Florawise Modular IR Blaster Features:

General Description:

Modular IR Blaster device controls an air conditioner by emitting infrared signals that correspond to specific functions of the air conditioner. The device has a built-in infrared transmitter that sends out signals automatically or manually to control various functions of the air conditioner, such as turning it on or off, adjusting the temperature, and changing the fan speed.

Modular Structure

The system's modular structure makes it easy for users to customize and expand according to their needs. By combining the requested modules for the application, it is possible to create the desired system.

Reliability

The system is designed to meet high reliability standards required in automation applications. The hardware and software components of the system provide durability and long life even in harsh operating conditions.

Wireless and Wired Communication Support

The system can perform data collection and control operations using wireless or wired communication interfaces.

High Performance

Modular IR Blaster provides high performance, ensuring efficient operation. It offers a reliable solution in automation applications with high-speed data processing, low latency, and fast response times.

Easy Installation and Use

Modular IR Blaster provides easy installation and use. Since connections can be easily made to the controller, the system creation process is quick and easy.

Power Options

Modular IR Blaster offers the ability to operate with different power options. These options are determined according to the user's needs and are used to optimize the system's power.

Dimensions

Modular IR Blaster has dimensions of 93,5mm (diameter) x 34mm (depth)







The MODULAR IR is a standalone interface that allows easy connection of air conditioning systems to Home Automation and Daikin

connection of air conditioning systems to Home Automation and Building Management Systems. Supporting multiple brands, it provides end-users with full control over all air conditioners, offering access to various functions, including diagnostic features of the air conditioning systems. Temperature measurements can be taken at desired points using 3 NTC sensors, which can be mounted with sensor cables. The temperature readings are recorded as real-time and historical logs, and can be compiled into reports.

Supported Brand	Communication Line	
Samsung	Power Communication only	
Daikin	Power Communication only	
LG	Power Communication only	
Mitsubishi Electric	Power Communication only	
Mitsubishi Heavy	Power Communication only	
Toshiba	Power Communication only	
Sigma	Power Communication only	
Arçelik	Power Communication only	
It is compatible with any device that has an infrared receiver.		

VRF Communication Support





FEATURES AND FUNCTIONS

Infrared Frequency	38Khz		
Infrared Angle	360°		
Signal Range	10 meter without barrier		
Typ. temperature accuracy	±1.0 °C		
Operating temperature range	-40 - 125 °C		
Response time (τ63%)	< 60 s		
Humidity			
Typ. relative humidity accuracy	±6 %RH see Figure 1		
Operating relative humidity range	0 - 100 %RH		
Response time (τ63%)	0,16		
LUX			
2 Channel LUX Meter	400-1100nm		
Features	I2C interface (Fast Mode @ 400kbit/s) RoHS and Halogen free compliant Immunity to IR / UV Light Source Close to human eye spectral response Full dynamic range from 0.01 lux to 64k lux 16-bit effective resolution		
STANDARDS	1		
Certifications	CE		
OTHERS			
LED indicators	RGB LED Indicator		
Built-in	RTC, Watchdog, Timer, NTC		
IP (Ingress Protection)	20		

MODULE	EXPLANATION	ORDER CODE	MODULAR MAX
WIRELESS COMMUNICITATION INTERFACE	LORA	L	•
	WIFI/BLUETOOTH	W/B	•
	RTLS	R	0
	LTE	LTE	0
	ETHERNET	E	0

WIRED COMMUNICATION INTERFACE	MODBUS PROTOCOL	Μ	•
	BACNET PROTOCOL	BMS	•
	DIRECT CURRENT	DC	•
POWER SUPPLY	ALTERNATING CURRENT	AC	•
BRAND INTERFACE MODULES	DAIKINN	DKN	•
	MITSUBISHI HEAVY INDUSTRIES	MHI	•
	TOSHIBA	TSH	•
	MITSUBISHI ELECTRIC	ME	•
	SAMSUNG	SNG	•
	FUJITSU	FJT	•
	GENERAL	GNR	•
SENSOR INTERFACE MODULES	PARTICULATE MATTER	PM	0
	CARBON DIOXIDE	CO2	0
	VOLATILE ORGANIC COMPOUNDS	tVOCs	0
	TEMPERATURE/ HUMIDITY/LUX	T/RH/LX	•
SOFTWARE	SEDONA	SDN	0
	REAL-TIME-CLOCK	RTC	•









ORDERING INFORMATION





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