



● SPARK VRF-CONTROLLER

VRF Central Air Conditioning Controller

Connects multi-split VRF air conditioning systems to the Tuya smart home platform. Control every indoor unit from a single app — mode, temperature, fan speed.

Tuya WiFi / Zigbee

DC 12 V

<2 W

DIN Rail / Wall

RS485

LCD Display

USB Type-C Upgrade

Bus cable up to 1000 m

Compatible with Daikin, Mitsubishi Electric, Hitachi, Toshiba, Panasonic, Gree, Hisense, LG, Samsung, Midea, Carrier, Trane and more.

KEY FEATURES



Universal VRF Compatibility

Works with all major brands via X-Y 2-wire bus. Daikin, Mitsubishi, LG, Samsung, Gree, Midea and 20+ more brands supported.



Tuya App Control

Control all indoor units remotely via Tuya. Switch on/off, set mode, adjust temperature and fan speed from iOS or Android.



LCD Status Display

Onboard LCD shows AC brand, number of indoor units, unit status, platform and working status — at a glance without opening the app.



DIN Rail or Wall Mount

Compact 105×87×58 mm body fits standard DIN rail in a distribution board or mounts directly to any wall surface.



RS485 External Interface

Optional RS485 port for integration with building management systems, KNX panels or other third-party controllers.



USB Type-C Upgrade

Firmware updates via USB Type-C port — no specialist tools required. Keep the controller up to date as new AC brands are added.



Simple 2-Wire Connection to Any VRF System

Connect the white twin-core signal cable to the communication port of any indoor unit. The controller automatically discovers all indoor units on the bus — cable run up to 1000 m.

TECHNICAL SPECIFICATIONS

Product size	105 × 87 × 58 mm
Input power	DC 12 V / 1 A
Power consumption	< 2 W
Communication	Tuya WiFi / Tuya Zigbee
VRF interface	X, Y — 2-wire bus, non-polarised
External interface	RS485 (optional)
Installation	DIN rail / wall mount
Upgrade port	USB Type-C
Max bus cable length	1000 m (0.5 mm² or above)

COMPATIBLE BRANDS

Daikin · Mitsubishi Electric · Mitsubishi Heavy · Hitachi · Toshiba · Panasonic · Hisense · Haier · Qingdao York · Gree · TCL · Samsung · LG · McQuay · TiCA · Chigo · Trane · Midea · Bosch Carrier · Midea Coolfree · AUX · Carrier and more

IN THE BOX

VRF Central Air Conditioning Controller
DC 12V / 1A Power Adapter · Power Conversion Cable
White Signal Connection Cable · Screwdrivers ×2 · Instruction Manual



SPARK-HOME.COM

LED INDICATORS STATE — network status · REMOTE — remote control active · RXD — data receiving · TXD — data sending · POWER — power normal