

# AIRNEXUS VRV CONTROLLER (ANX-VRV-32-RACK)

## General

The AIRNEXUS VRV32 Controller is an innovative solution that provides VRV (Variable Refrigerant Volume) or VRF (Variable Refrigerant Flow) air conditioning systems with remote control via the Airnexus application as well as integration options with home automation systems. This controller provides users with seamless control over their HVAC systems, enabling them to adjust settings such as power, mode, temperature, and fan speed directly from the Airnexus app or screen interface.

Key features include:

1. **Comprehensive Control:** Manage individual or grouped indoor units for precise zone control.
2. **User-Friendly Interface:** Easily control HVAC settings through Airnexus touchscreens, mobile apps, and keypads.
3. **Energy Efficiency:** Implement schedules and occupancy-based controls to optimize energy use.
4. **Remote Diagnostics:** Access via a secure tunnel for remote troubleshooting and maintenance.
5. **Elimination of Mode Master:** Simplifies the control process for an enhanced user experience.

The AIRNEXUS VRV32 Controller ensures that HVAC operations are intuitive, efficient, and easily accessible, enhancing the overall comfort and convenience of domestic and commercial environments.



## Installation

The AIRNEXUS VRV32 Controller connects to the VRV system's communication bus, allowing it to interface with the indoor and outdoor units for comprehensive control and monitoring.

### Connection to the Communication Bus:

- 1. Physical Connection:** The controller is connected to the VRV system's communication bus using standard communication wires. The wiring diagram provided in the installation manual should be followed to ensure proper connections.
- 2. Bus Interface:** The controller includes an interface module that translates Airnexus application commands into the VRV system's protocol. This module ensures reliable communication and remote access to change settings between the Airnexus application and the VRV units.
- 3. Addressing and Configuration:** Once connected, the controller scans the communication bus to identify connected indoor and outdoor units. The installer can then configure the system using the Airnexus application setup interface, assigning logical addresses to each unit for easy management.



## Specifications

Specifications Table	
<b>Voltage</b>	24VDC 2A +/- 5%
<b>Operating Temperature Range</b>	-5°C ... +55°C
<b>Weight</b>	3,565g
<b>Material</b>	Phosphated steel and coated with a dark grey enamel
<b>Standard</b>	IEEE802.3
<b>Processor</b>	Broadcom BCM2712 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU, with Cryptographic Extension, 512KB per-core L2 caches, and a 2MB shared L3 cache
<b>Features</b>	<ul style="list-style-type: none"> <li>· LPDDR4X-4267 SDRAM (4GB and 8GB SKUs available at launch)</li> <li>· Dual-band 802.11ac Wi-Fi®</li> <li>· Bluetooth 5.0/Bluetooth Low Energy (BLE)</li> <li>· microSD card slot, with support for high-speed SDR104 mode</li> <li>· 2 × USB 3.0 ports, supporting simultaneous 5Gbps operation</li> <li>· 2 × USB 2.0 ports</li> <li>· Gigabit Ethernet</li> <li>· Real-time clock (RTC), powered from external battery</li> </ul>
<b>Dimensions</b>	all units 482.6mm wide: 1U Panel height 43.7 Cabinet height 38.7 Cabinet depth 245
<b>Installation</b>	Server Rack

Brand Compatibility Table	
VRV Brand	Connection Terminals
<b>Daikin</b>	F1, F2
<b>Mitsubishi</b>	TB3, TB7
<b>Toshiba</b>	A, B
<b>LG</b>	L1, L2
<b>Fujitsu</b>	X1, X2
<b>Samsung</b>	F3, F4
<b>Hitachi</b>	H1, H2
<b>Panasonic</b>	U1, U2
<b>York</b>	Y1, Y2
<b>Carrier</b>	C1, C2
<b>Trane</b>	T1, T2
<b>Gree</b>	G1, G2

*\*\*Please contact us for any additional air conditioning system manufacturer compatibility not listed here.*