Energy-Efficient Control

The DKN Plus Interface (AZAI6WSPDKC) enables the energy-efficient control of Daikin air conditioners by a third-party thermostat or an automation system. With this interface, third-party devices or systems can control the *VRV, SkyAir*, and Daikin Single/Multi-Zone indoor units through Cloud API, Modbus®, BACnet™ MS/TP, or thermostat relay contacts. This interface can be commissioned with ease through the DKN Cloud North America (NA) app via Bluetooth® Low Energy (BLE).

Features

» Versatile interface adaptor that can integrate with a third-party thermostat/BMS through multiple approaches:
  — Cloud API
  — *Modbus*
  — *BAC*net MS/TP
  — Backup thermostat G/Y/W (Fan/Cool/Heat) relay control through thermostat wire:
    – Automatically disables thermostat relay logic when cloud API connection detected
    – Advanced control logic to maximize indoor unit efficiency
» Easy commissioning with the BLE configuration app (DKN Cloud NA app)

» Indoor unit control and monitoring points*
  — On/Off
  — Set-point
  — Room temperature
  — Mode (Auto, Cool, Heat, Fan, Dry)
  — Fan speed
  — Louver position
  — Error code
  — Interlock control with indoor unit On/Off
» Auxiliary Heater Control
  — Auxiliary heater controlled as a secondary heat source
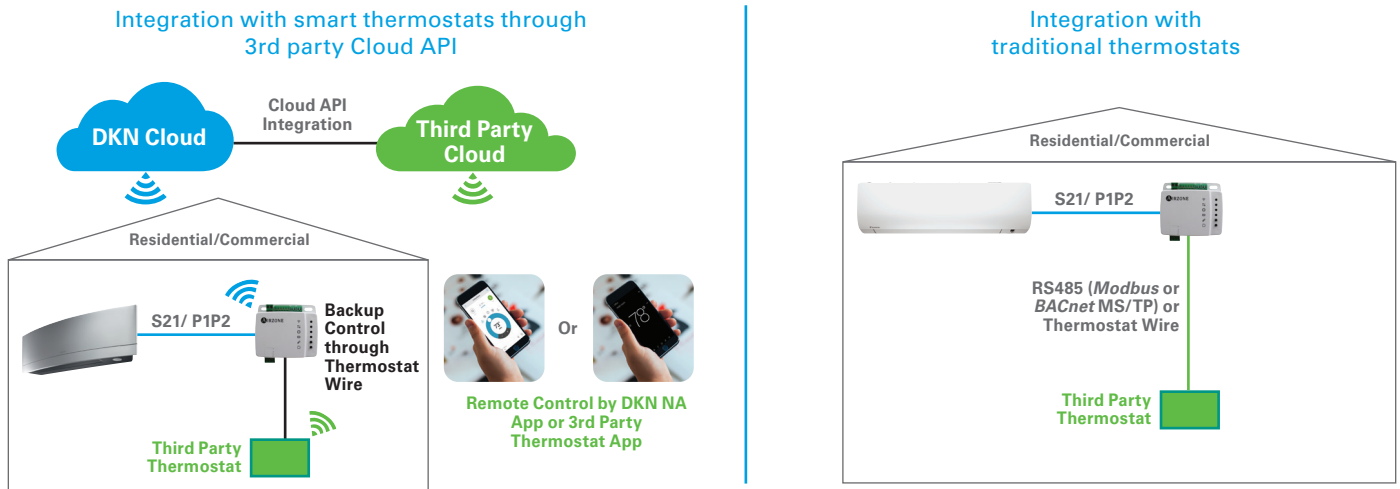
*Availability depends on indoor unit model

Compatibility

Indoor Unit Family	Model	Indoor Unit Type
VRV and *VRV LIFE*	CXTQ, FXAQ, FXDQ, FXEQ, FXFQ, FXHQ, FXLQ, FXMQ, FXNQ, FXSQ, FXTQ, FXUQ, FXZQ	P1P2
SkyAir	FAQ, FBQ, FTQ, FCQ, FHQ	P1P2
Single-Zone and Multi-Zone	FDMQ, FFQ	P1P2
	CDXS, CTXS, FDXS, FTK, FTX, FTXG, FTXR, FTXS, FVXS	S21

System Diagram

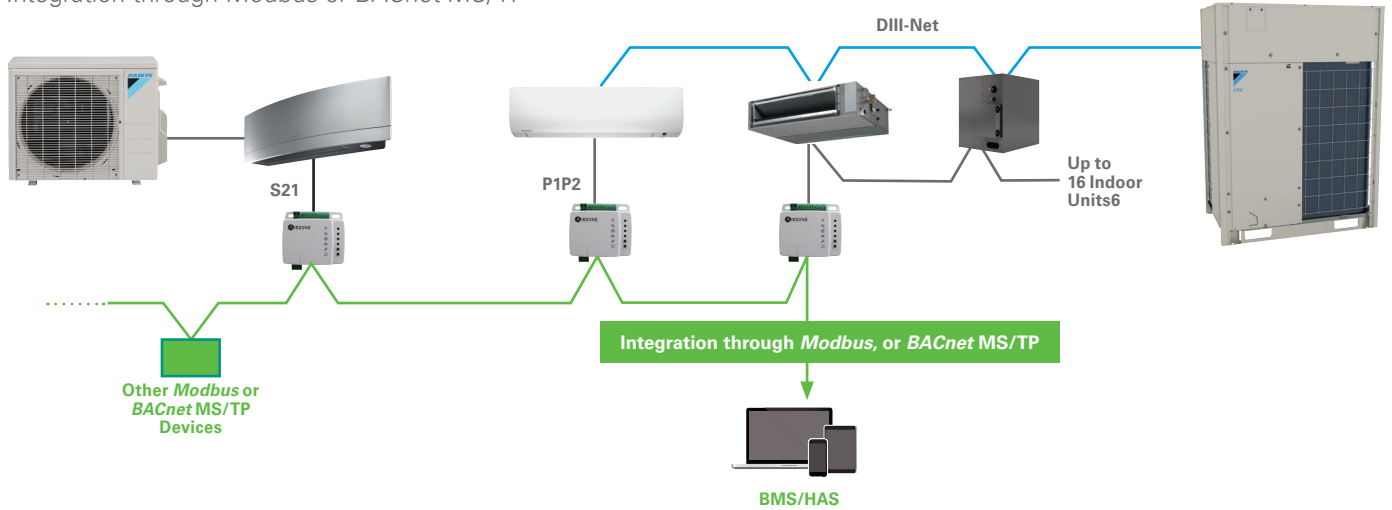## Integration with 3rd party thermostat

» The adaptor provides 4 different approaches for a 3rd party thermostat to control the Daikin indoor units

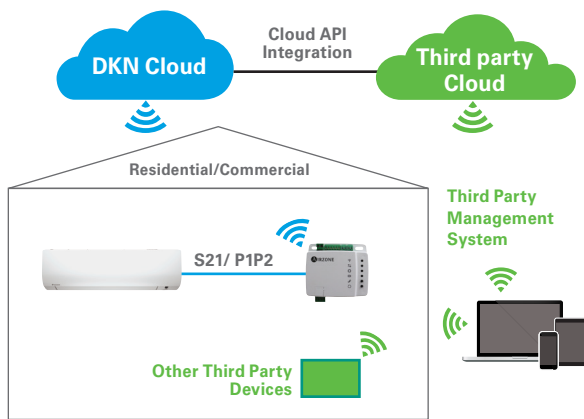### Integration with smart thermostats through 3rd party Cloud API

DKN Cloud — Cloud API Integration — Third Party Cloud

Residential/Commercial

S21/ P1P2

Backup Control through Thermostat Wire

Third Party Thermostat

Or

Remote Control by DKN NA App or 3rd Party Thermostat App

Integration with traditional thermostats

Residential/Commercial

S21/ P1P2

RS485 (*Modbus* or *BACnet* MS/TP) or Thermostat Wire

Third Party Thermostat

Integration with Building Management System (BMS) or Home Automation System (HAS)

» Integration through *Modbus* or *BACnet* MS/TP

DIII-Net

S21

P1P2

Up to 16 Indoor Units6

Other *Modbus* or *BACnet* MS/TP Devices

Integration through *Modbus*, or *BACnet* MS/TP

BMS/HAS

» Integration through Cloud API

DKN Cloud — Cloud API Integration — Third party Cloud

Residential/Commercial

S21/ P1P2

Third Party Management System

Other Third Party Devices

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To learn more about the DKN Plus Interface, contact your local sales representative, visit www.daikincity.com or www.daikinac.com.