Submittal Data Sheet

AZAI6WSPDKC – DKN Plus Interface

Project Name:	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:

MODEL COMPATIBILITY:

Compatible with the following indoor units:

Indoor Unit Family	Model Number	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*, FTKB*, FTX*, FTXB* FTXG, FTXR, FTXS, FVXS, FTXM	S21

*FTK_AXVJU, FTKB_AXVJU, FTX_AXVJU, FTXB_AXVJU and CTX_AXVJU units are not compatible.

The following indoor units do not have the S21 connection and require an additional interface adaptor (ordered separately) to provide the S21 connector:

Indoor Unit Models	Required Interface Adaptor
FTX09NMVJU(A), FTX12NMVJU(A), FTX09WVJU9, FTX12WVJU9	KRP067A41E
FTX15NMVJU(A), FTX15WVJU9	KRP980B2E
FTXM09VVJU, FTXM12VVJU, FTXM18VVJU, FTXM24VVJU, FTXM09WVJU9, FTXM12WVJU9, FTXM18WVJU9, FTXM24WVJU9	KER087A41

SPECIFICATIONS:

Model		AZAI6WSPDKC
Description		DKN Plus Interface
Maximum connections		1 for each S21/P1P2 indoor unit
Wiring	**S21 Wire**	8.2 ft / 2.5 m (Included)
	P1P2 Wire	8.2 ft / 2.5 m (Included)
Modbus RTU / BACnet MSTP communication baud rate		9600, 19200, 38400, 57600, 76800, 115200 bps (Default: 38400)
Power supply	**For DKN Plus Interface**	12-16VDC from indoor unit PCB
	For 3rd party thermostat	24VAC from external power supply
Contact Rating	**Digital output (Aux. Heat)**	1 amp. at 24VAC (Normally Open (NO))
	Digital Input (Force Off)	Dry contact (Configurable as NO or NC).
Dimensions		3.62 in x 3.15 in x 1.14 in / 92mm x 80 mm x 29 mm
Weight		3.24 oz / 92g
Storage temperature		-4°F to 158°F
Operation temperature		32°F to 113°F
Compliance		EMC with the standard 47 CFR Part 15B (US) EMC with ICES-003 Issue 6 standard (Canada)

PRODUCT IMAGE:



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www.daikinac.com www.daikincity.com

Rev.0923

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FEATURES:

- Versatile interface that can integrate with a smart thermostat through multiple approaches:
  - Cloud API (Honeywell Home App/Cloud – Ecobee App/Cloud – *Nest App/Cloud*)
  - Local API (Integration to Daikin Color Touch (DT4272C) *with firmware v4.*05 – Premium Mini (D2270C) *"Future"*)
  - Modbus RTU
  - BACnet MS/TP
- 3rd party thermostat G/Y/W (Fan/Cool/Heat) relay control through thermostat wiring.
  - Automatically disables thermostat relay logic when cloud API connection detected.
  - Custom control logic applied to minimize the loss of the indoor unit efficiency when no cloud API, BACnet or Modbus connection was detected.
  - Compatible Daikin thermostats: App Stat 250803400 – Value Series (TSTATD1100-2 or TSTATD1152-2) – Premium series (D4271C) – Premium Mini (D2270C) – Color Touch (DT4272C)
- Easy commissioning with Bluetooth configuration App (DKN Cloud NA App)
- Indoor unit control and monitoring points (for integration through cloud, Modbus, and BACnet MS/TP only)
  - On/Off – Setpoint - Room temperature - Mode (Auto, Cool, Heat, Fan, Dry) - Fan speed - Louver position - Error code
- Indoor unit forced off by interlock control through digital input dry contact.
- Controls auxiliary heater with dry contact as a secondary heat source:
  - Turn on and off the auxiliary heater based on the differential (configured in App) between the setpoint and the room temperature.
  - Enable/Disable the auxiliary heater based on outdoor temperature (S21 IDU only)
  - The user can enable the emergency heat mode from the DKN App
    - If the indoor unit has an error, the user can enable the emergency heater from the app.
- Integration to a home automation system through software drivers
  - Crestron
  - Control4
  - RTI Control
  - Fibaro
- Modbus RTU and BACnet MS/TP Integration
  - The following points are available:

No.	Point Name	Read Only/Writable
1	Unit on/off	Writable
2	Setpoint	Writable
3	Room temperature	Writable**
4	Mode Auto/Cool/Heat/Fan/Dry	Writable
5	Fan speed	Writable
6	Louver position	Writable
7	Error code	Read only
8	Digital input status	Read only
9	Aux heat output status	Read only

** The room temperature is writable for P1P2 indoor units only and read only for S21 indoor units.

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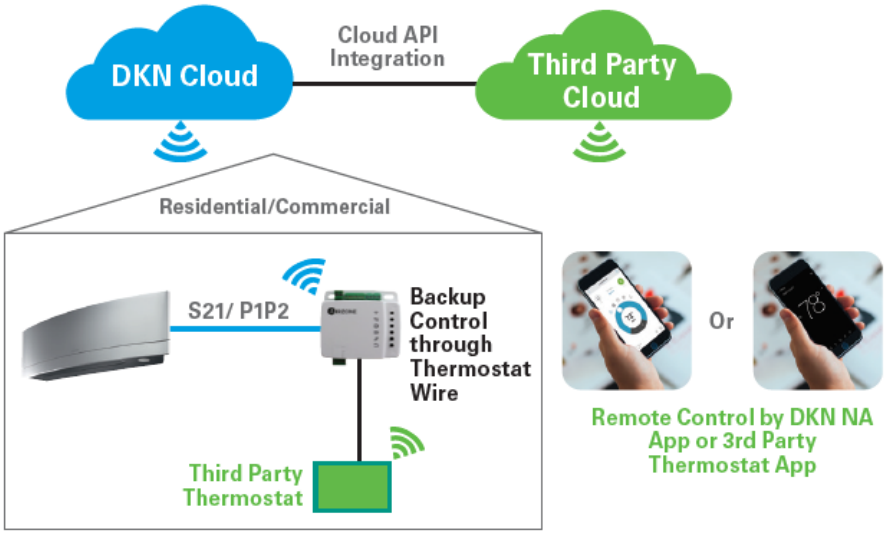
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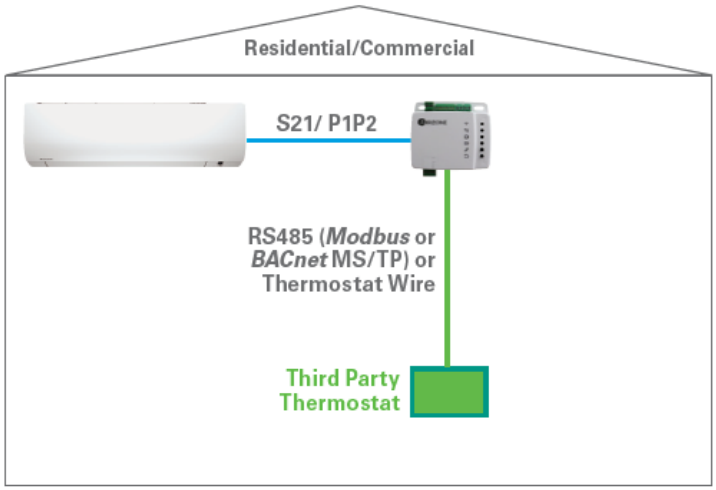
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SYSTEM DIAGRAM:

- Integration with 3rd party thermostat
  - Integration with Smart Thermostats through 3rd party Cloud API



  - Integration through RS485 or Thermostat Wire



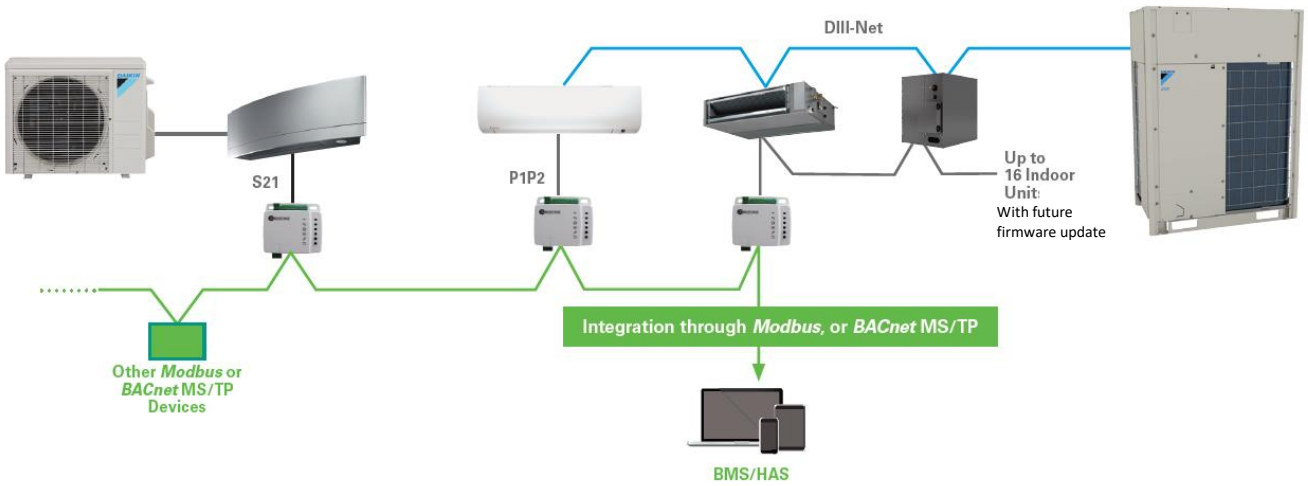
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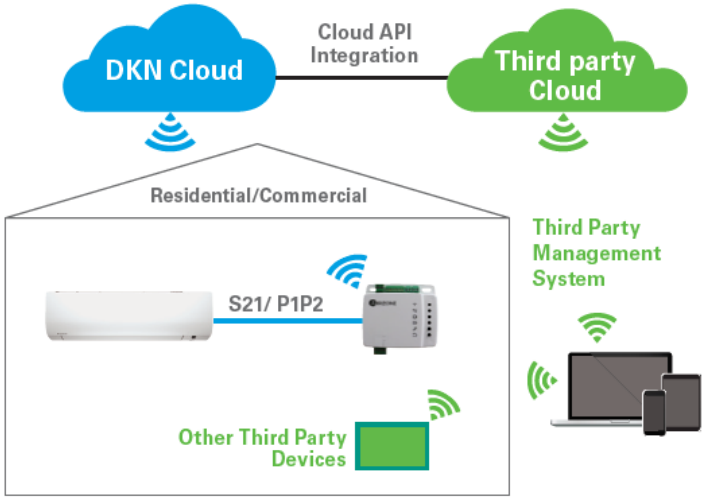
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- Integration with Building Management System (BMS) or Home Automation System (HAS)
  - Integration through Modbus or BACnet MS/TP



  - Integration through Cloud API



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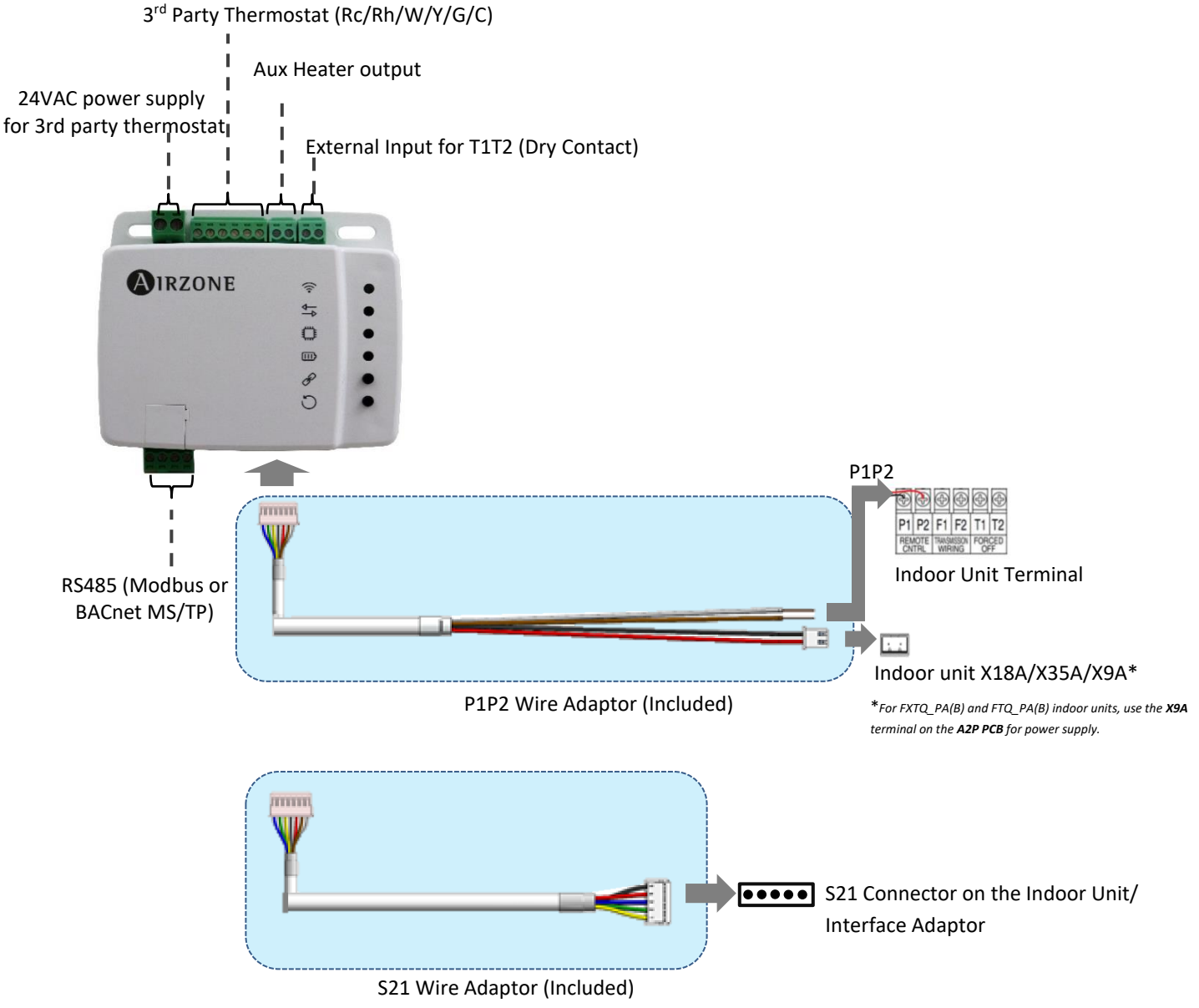
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WIRING DIAGRAM:

- Connection to a VRV or Mini/Multi-split indoor unit



*For FXTQ_PA(B) and FTQ_PA(B) indoor units, use the **X9A** terminal on the **A2P PCB** for power supply.

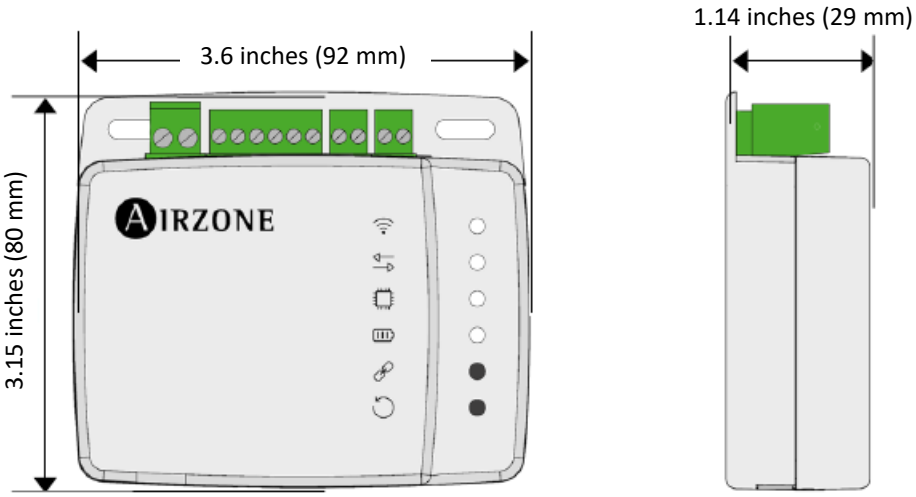
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DIMENSIONS:



DOCUMENTATION:

Documentation available on www.daikincity.com and/or www.daikinac.com:

- Submittal
- Operation Manual
- Installation Manual
- Product Flyer
- Written Guide Specs

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