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, FTX*, FTXG, FTXR, FTXS, FVXS	S21

* FTX_AXVJU and FKT_AXVJU units are not compatible with the GWY connection; but they can be controlled through Cloud API, BACnet, or Modbus.

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, FTX12NMVJU, FTK09NMVJU, FTK12NMVJU	KRP067A41E
FTX15NMVJU, FTX18NMVJU, FTX24NMVJU, FTK18NMVJU, FTK24NMVJU	KRP980B2E

SPECIFICATIONS:

Model		AZAI6WSPDKC
Description		DKN Plus Interface
Maximum connections		1 for each S21/P1P2 indoor unit
Wiring (initial)	**P1P2/S21 communication and power wire**	7.7ft / 2.35m (included)
	S21 wire adaptor	0.5ft / 0.15m (included)
	P1P2 wire adaptor	0.5ft / 0.15m (included)
Wiring (revision)	**S21 Wire**	8.2 ft / 2.5 m (Included)
	P1P2 Wire	8.2 ft / 2.5 m (Included)
Modbus RS485 communication baud rate		19200 bps
BACnet MS/TP communication baud rate		9600/19200/38400 bps (Default: 38400)
Power supply	**For DKN Plus Interface**	12-16VDC from indoor unit PCB
	For 3rd party thermostat	24VAC from external power supply
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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FEATURES:

- Versatile interface that can integrate with a third-party thermostat through multiple approaches:
  - Cloud API
  - Modbus
  - 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 detected
- Easy commissioning with Bluetooth configuration 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 off by interlock control through dry contact (T1T2)**
- Controls auxiliary heater with dry contact as a secondary heat source**
- Modbus 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

* Not compatible with FTX_AXVJU units, as the room temperature cannot be read by the DKN Plus Interface

** These functions are not available yet. Once these functions are available, an Over-the-air (OTA) update will be sent out to connected interfaces. Cloud connection is required for OTA update

*** The room temperature is writable for P1P2 indoor units only when integrated through BACnet MS/TP. The room temperature is a read-only point when integrated through Modbus.

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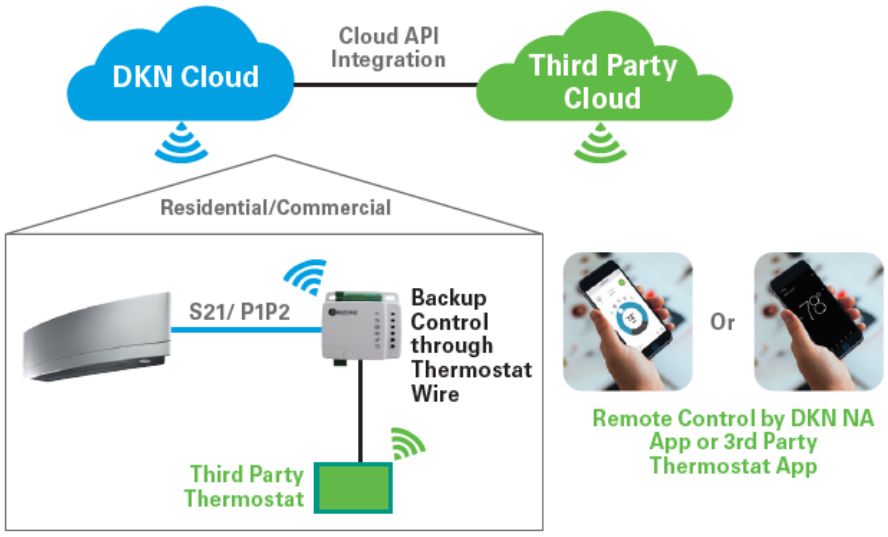
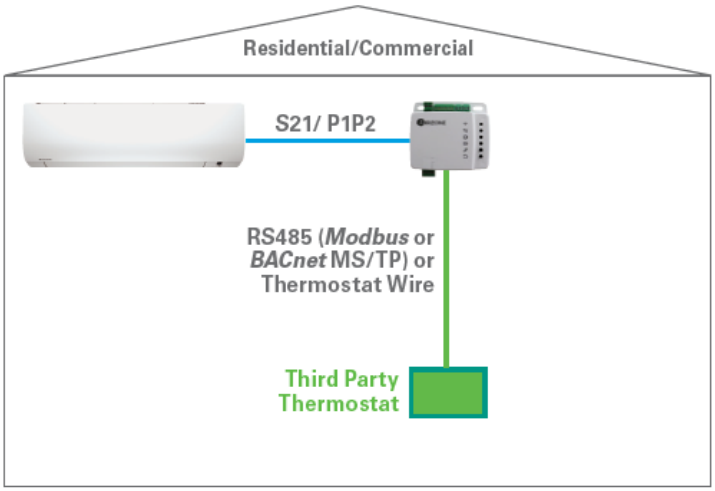
SYSTEM DIAGRAM:

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



  - Integration through RS485 or Thermostat Wire



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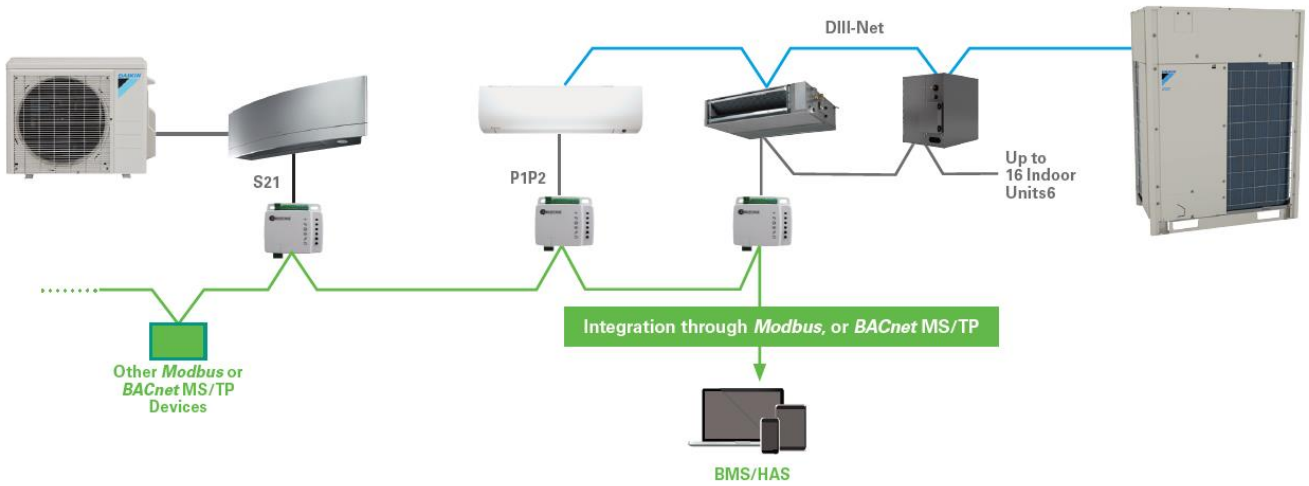
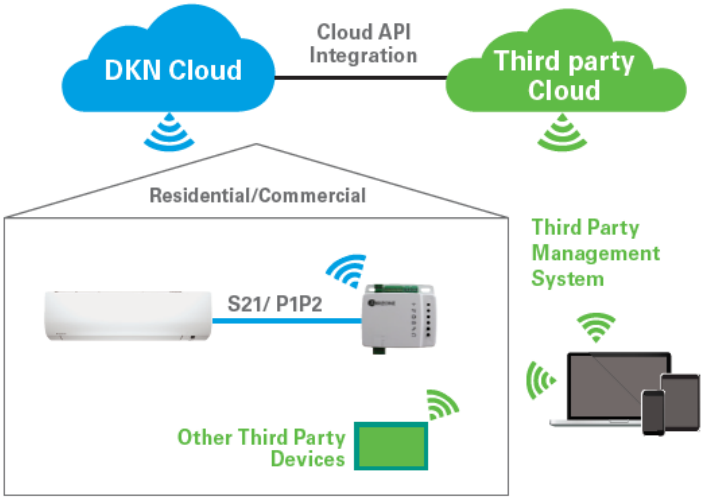
- Integration with Building Management System (BMS) or Home Automation System (HAS)
  - Integration through Modbus or BACnet MS/TP



  - Integration through Cloud API



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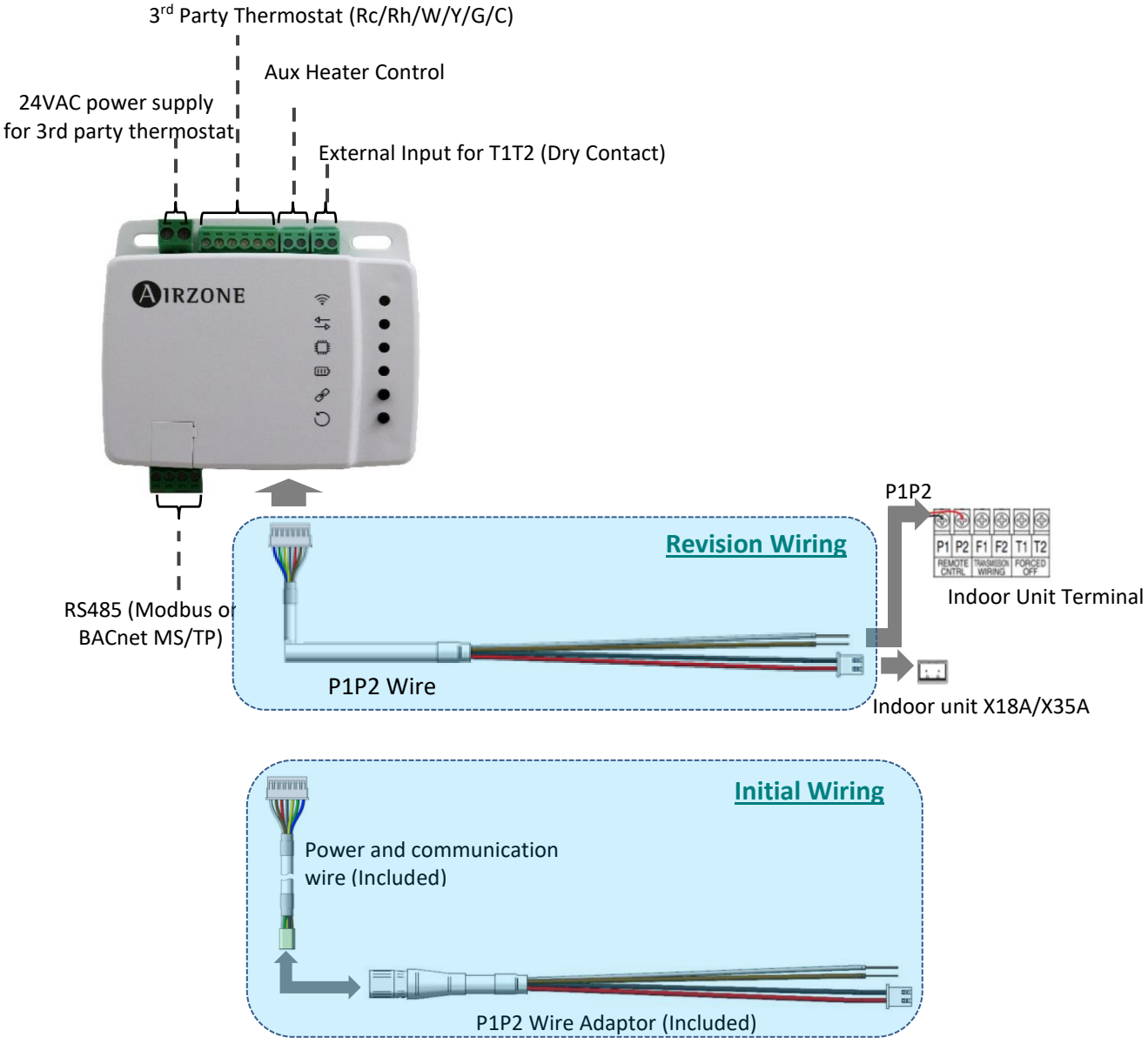
WIRING DIAGRAM:

- Connects to P1P2 indoor unit



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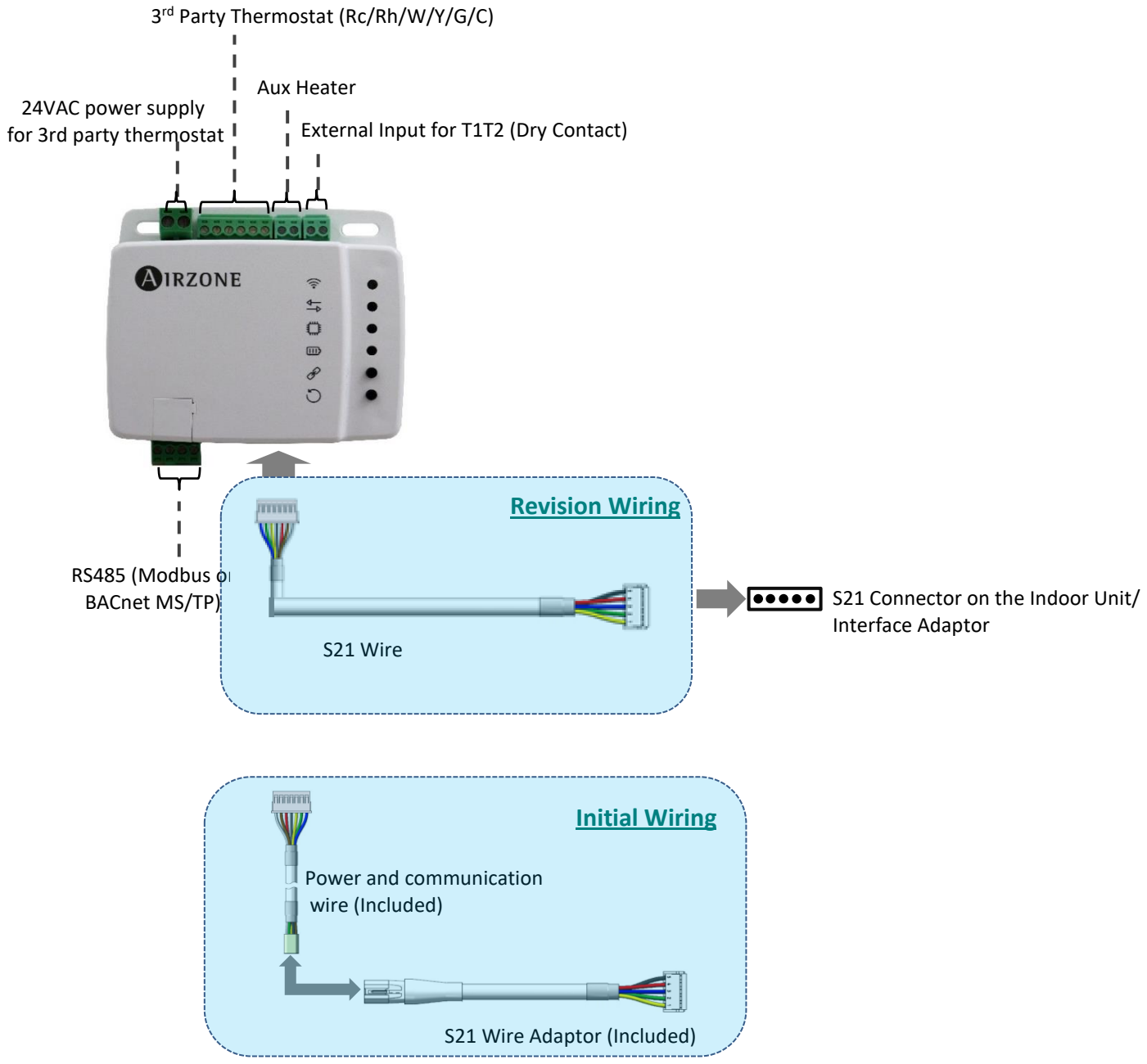
- Connects to S21 indoor unit



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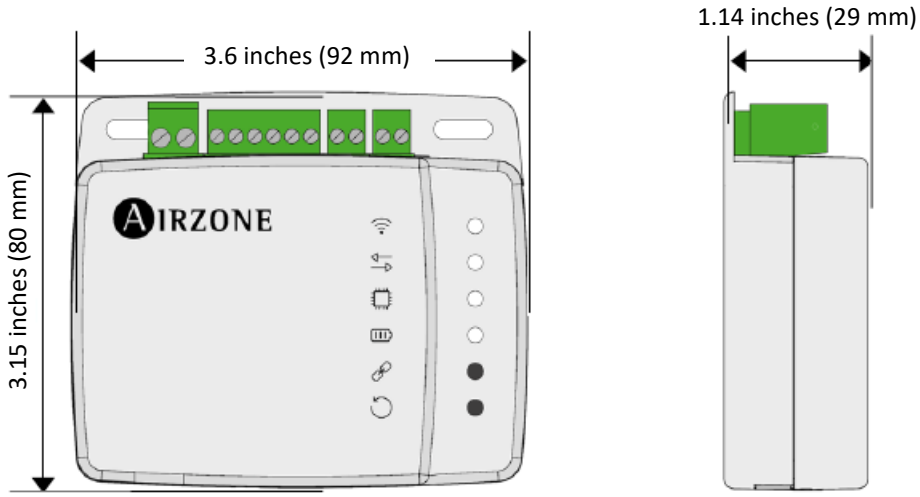
DIMENSIONS:



DOCUMENTATION:

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

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