AIRSTAGE

FUJITSU

V-SERIES, J-SERIES, H-SERIES

AIRSTAGE Cloud

Multi-site HVAC Building Management System as a Service



airstagecloud.com

GENERAL HVAC Solutions America, Inc

Better solutions for HVAC management and maintenance

The highly versatile AIRSTAGE Cloud platform enables effective and efficient management and maintenance of heating, ventilation, and air conditioning systems as an ongoing service. It can be accessed through a web browser.

AIRSTAGE Cloud



Manage HVAC systems for multiple properties
Streamline HVAC management and reduce operating cost

Enable remote monitoring and maintenance
Improve maintainability and serviceability

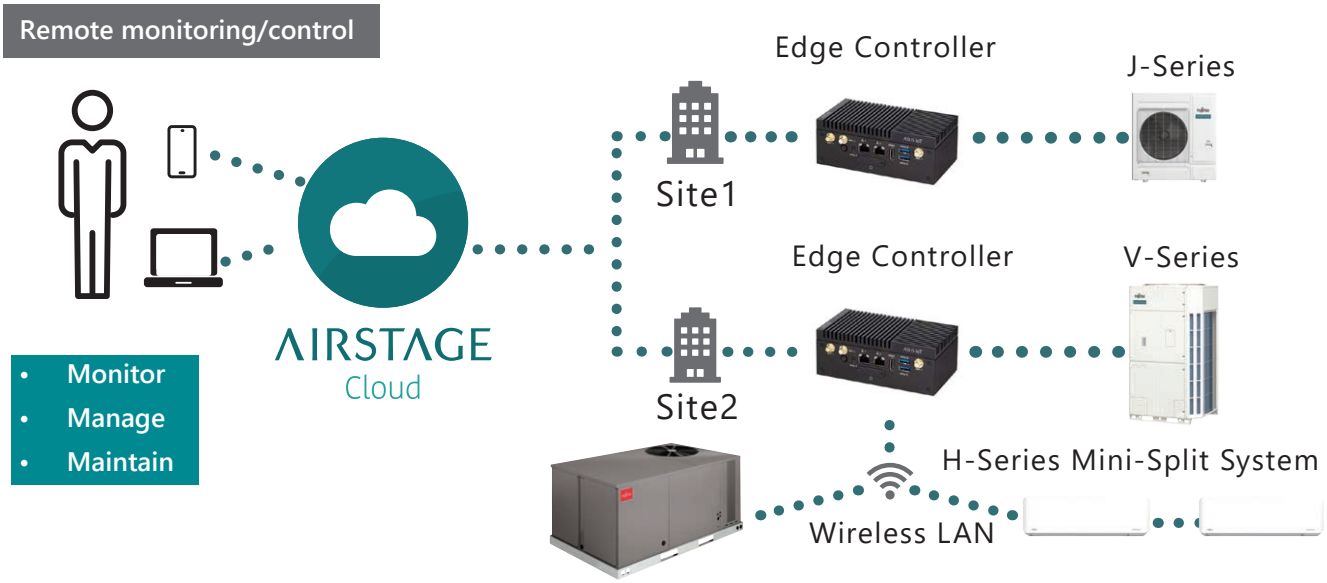
Cloud-edge infrastructure sharing
Enjoy affordable performance, security and reliability

Pre-programmed / self-configuring dashboards and automated device recognition
Minimize custom programming and lower setup and expansion costs

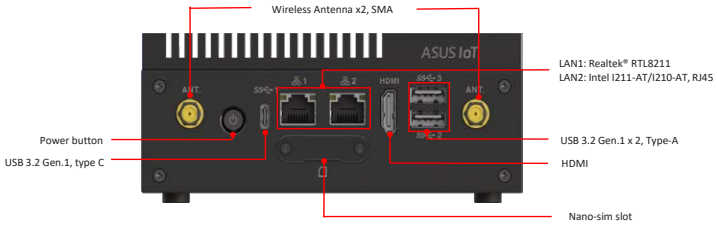
New features will be continuously implemented by over-the-air system updates

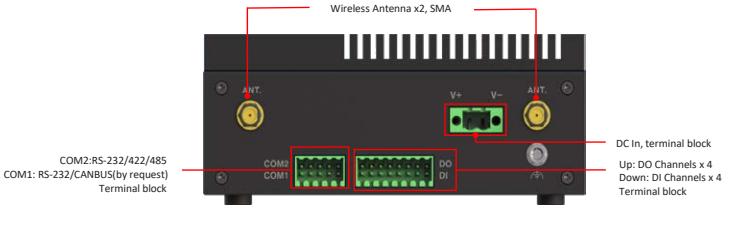
System Overview

The AIRSTAGE Cloud delivers greater value in operation and life-cycle management of HVAC systems.



Appearance

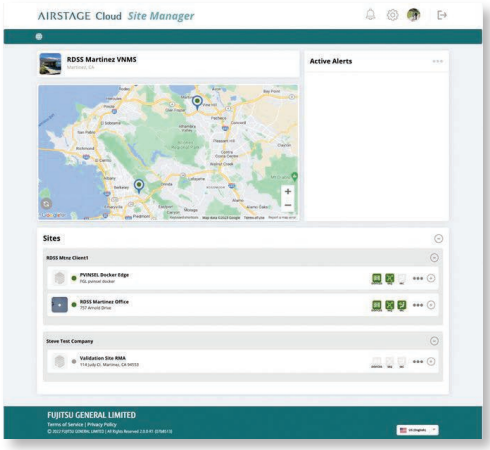




Features - Site Manager

- Subscription-based application with tiered options
- Manage HVAC systems for multiple properties - Show location map and information about HVAC systems under management
- Streamline HVAC management and reduce operating cost
- At-a-glance monitoring dashboard - Display an HVAC system's operation status and energy usage for each site, group, and system in a dashboard format
- Manage energy usage - Maintain comfortable room environments efficiently
- Account settings - create profiles for clients, manage users and access, register Edge Controllers
- Notifications - view in-app alerts, manage external SMS and email notifications

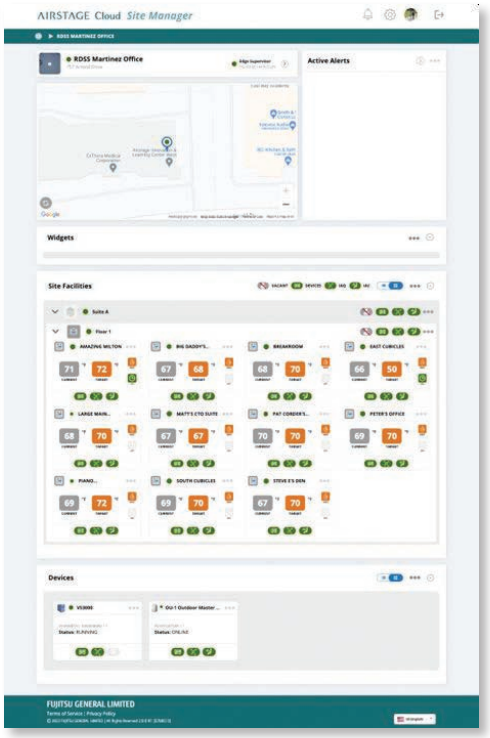
Portfolio Dashboard



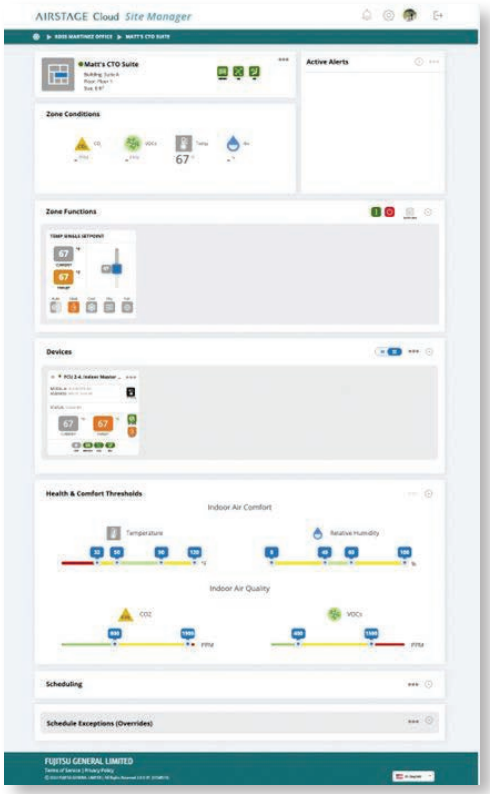
The AIRSTAGE Cloud enables centralized management of HVAC systems operating in multiple properties and plots the property locations on a map.

Screen layout and content subject to change as features are added and improved.

Site Dashboard



Zone Dashboard



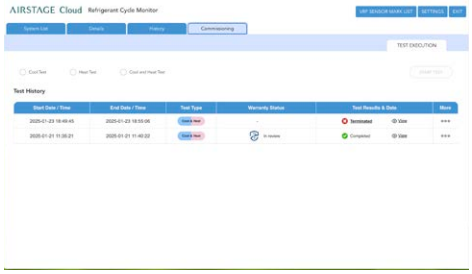
Features - Service Manager - (accessible through web browser connection to AIRSTAGE Cloud.) Note, only for J & V series

- Display indoor/out unit configuration
- Remote Read/write VRF function codes
- Remote VRF Commissioning
- Monitor and control operation
- Live operating parameters
- 30-day system performance lookback
- Trend graphs for key parameters
- Operation History
- Error History

Site Dashboard



Commissioning Dashboard



Features

- Certified with RF Regulation: CE RED (LTE module)
- 16GB on board eMMC , Mini PCIe slot for storage capacity
- Compact size gateway with low power consumption and scalable processor for diverse IoT applications
- Support Linux Yocto OS and Ubuntu server/ core
- Wide Operating Temperature Range : 20˚~60˚C

●: Supported

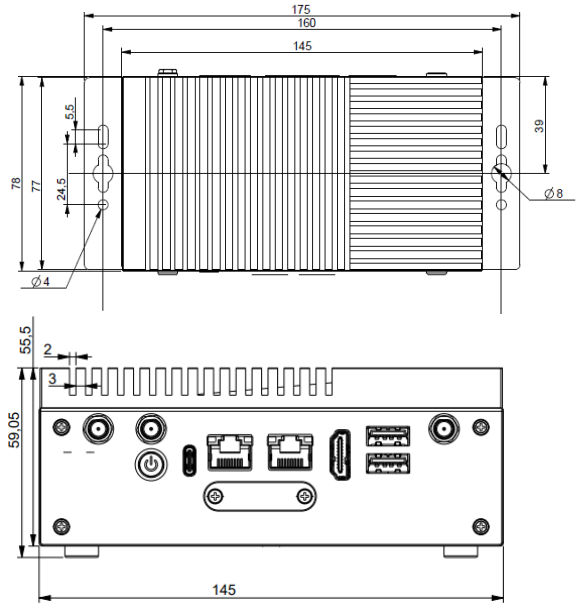
Model name			PE 100A
Model number			UTY-DSGXZ1-1YN
Max. controllable indoor units			128
Site Manager	On / Off		●
	Operation mode setting		●
	Fan speed setting		●
	Room temp. setting		●
	Room temp. set point limitation		●
	Test operation		●
	Up/down airflow direction setting		●
	Left/right airflow direction setting		●
	Individual louver control		●
	Zone (Group) setting		●
	RC prohibition		●
	Anti freeze setting		●
	Economy mode setting		●
	Human sensor control		●
	Custom Auto setting		●
Service Manager	System List	Display indoor/out unit configuration	●
		Monitor and control operation	●
		Special Operation monitoring	●
	Detail Diagrams (OD/IU)	Current operating parameters	●
		Piping diagram	●
		Sensor location and current value	●
		Trend graphs for temp sensors and EEV pulses	●
	Detail Status List of operation and sensor values		●
	Details Check List showing abnormal values if present		●
	Operation History		●
	Error History		●
	Read/write VRF function codes		●
	Remote VRF Commissioning		●
Timer	Schedule Timer	Period	Weekly,Yearly
		On/Off, Temp., Mode, Times per day	●
	Program timer		●
	Auto off timer		●
	Day off		●
	Min. unit of timer setting (Minutes)		1
Control	Status monitoring system		●
	Emergency stop		●
	Remote management		●
	Zone control		●
History	Operation		●
	Error		●
Other	Multiple user accounts and access levels		●
	Software Update Over the Air (OTA)		●

Specifications

System	CPU	NXP® i.MX 8M ARM Cortex-A53 Quad core , 1.3 GHz
	Memory	4 GB LPDDR4 onboard
	OS Storage	16 GB eMMC onboard
Wired Interfaces	Video	1 x HDMI 2.0, supports up to 3840 x 2160 @60Hz
	Ethernet	2 x 10/100/1000 Mbps, RJ45 1 x Realtek® RTL8211, supports WOL 1 x Intel I211-AT/I210-AT, supports WOL
	USB	2 x USB 3.2 Gen.1, Type-A 1 x USB 3.2 Gen.1, supports OTG, Type-C
	COM	1 x RS-232/CANBus (by request)(COM1) 1 x RS-232/422/485 (COM2), 2 x 5 terminal block
	DIO	4 x DI, 4 x GND, 2.5 KV optical isolation 4 x DO, 4 x GND, 10KV relay isolation, 2 x 8 terminal block
Wireless Interfaces	Wi-Fi	1 x M.2 2230 E-key socket, supports 802.11 a/b/g/n/ac + BT 4.2 module
	SIM	1 x nano-SIM slot
Expansion Slot	mPCIe	1 x mPCIe socket, supports SATA or USB signal for mSATA/LTE/Google®TPU module
	M.2 E key	1 x M.2 2230 E key socket, supports PCIe or USB signal for Wi-Fi/BT
AI	Edge TPU	Google® Coral Edge TPU (mPCIe socket)
Power	Power	12 to 24 V DC, 2-pin terminal block
Mechanical	Mounting	Wall mount/ Din Rail
	Dimensions	55.5(H) x 145(W) x 78(D) mm
	Weight	0.775 KG
Environment	Operating Temp.	-20~60°C with wide temperature parts, fanless
	Storage Temp.	-40~85°C
	Relative Humidity	10 to 95% (non-condensing)
	EMC	CE(ITE), FCC, VCCI, RCM,BSMI, CCC
	RF Regulation	LTE: CE-RED
	Safety	UL,CB, CCC, BSMI, CE
	Vibration	Operating: 0.21Grms, 5~500 Hz, 20min duration
	Shock	Operating: 50 G, half sine 11ms duration
	Green	GA (RoHS)
Security	TPM header	Cooperate with TPM 2.0 powered by Nuvoton NCPT 750 (Optional)
Others	Watchdog timer	Yes. Set up by software
	Operating System	Linux Yocto, Ubuntu server/ core

Dimensions

Unit : inch [mm]



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