## 2-2. System controller lite (UTY-ALGXZ1)

System controller lite is advanced software of central controller for small and medium buildings. It can be supported by additional options such as electricity charge apportionment, remote monitoring, and energy saving in order to meet your demands.



- Supports 1 VRF network system and maximum of 400 controllable indoor units.
- Various high level functions from individual control to annual schedule management, operation history, and error history management.
- Corresponds to 7 different languages. (English, Chinese, French, German, Spanish, Russian, and Polish)
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface and personal computer are locally purchased items.
- Units status can be monitored and operated for each site, group, or unit.\*
- \*: 2D floor layout/3D building display are not available. If you need these functions, use System controller.

## Accessory

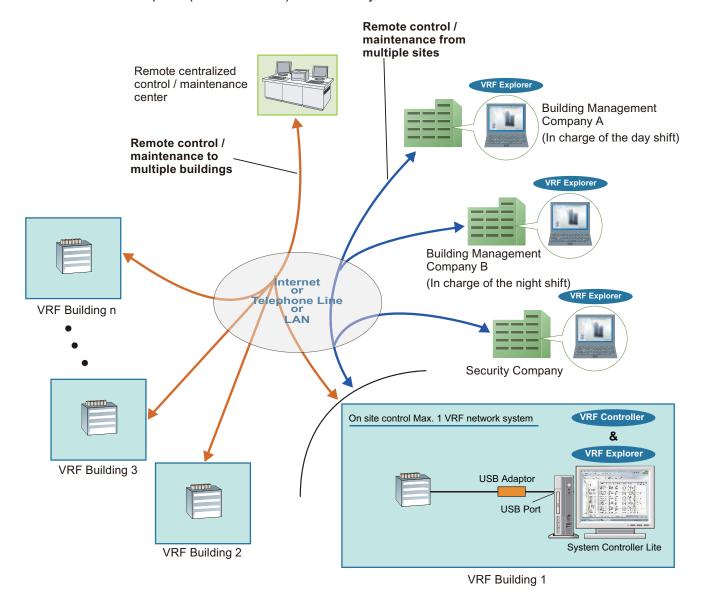
Name and shape	Q'ty	Application
WHITE-USB-KEY (software protection key with software)	1	Software protection key to be connected to an USB port on the PC that System controller is installed. System controller runs only on a PC with this WHITE-USB-KEY. However, this WHITE-USB-KEY is not required for remote VRF Explorer software.

## ■ Available option

Option Model name		Remark					
Electricity charge apportionment option UTY-PLGXA2		Apportions the power used by indoor and outdoor units, and automatically calculation the electricity charge such as for hotels or multi-tenant buildings. Computation linked with an electric meter is also possible.					
Remote access option UTY-PLGXR2		VRF system can be monitored remotely from multiple PCs. Multiple VRF systems can be controlled or monitored from 1 PC.					
Energy saving option UTY-PLGXE2		A variety of energy saving operations can be set and managed depending on the season, weather, and time period.					
Prepaid air conditioning UTY-PLGXP2		Prepaid management of VRF air conditioner is performed and collection of charge for air conditioning is supported for building administrator.					
External device control UTY-PLGXX2		By enabling central control by third-party external device, burden on maintenance and administration of the devices by the building administrator is reduced.					

## ■ System diagram

- System controller lite may be used on site or remotely over various networks for remote central control.\*
- System controller lite consists of VRF Controller software and VRF Explorer software, both software are working together.
- VRF Controller software runs in the background and communicate with VRF System.
- · VRF Explorer software provides user interface and communicate with VRF Controller.
- VRF Controller and VRF Explorer software may run in a single PC or in different PCs separated by network.\*
- VRF Explorer software does not require WHITE-USB-KEY (Software protection key).
- \*: Remote access option (UTY-PLGXR2) is necessary.



### ■ Software configuration



- Any number can be installed in remote site personal computers.
  - System controller lite (UTY-ALGXZ1) can be installed in the local site PCs (VRF controller) connected to the VRF network system.
  - Multiple remote site PCs (VRF explorer) can be connected to VRF controller via Internet or LAN.
     Just this single product creates the control, management, and monitoring environment for the customer's properties including remote operation.

#### NOTES:

- WHITE-USB-KEY is not required for PCs on the remote site.
- Some function, such as equipment registration and input/output are invalid on the remote site.

#### Optional software to strengthen various function

- Electricity charge apportionment function can be added by installing optional UTY-PLGXA2.
- Remote centralized control function can be added by installing optional UTY-PLGXR2.
- Energy saving management function can be added by installing optional UTY-PLGXE2.
- Prepaid management function can be added by installing optional UTY-PLGXP2.
- External device control function can be added by installing optional UTY-PLGXX2.

## Other required devices (Locally purchased)

• Personal computer that satisfies the following system requirements

	Personal computer system requirement
	Microsoft Windows 7 Home Premium (32-bit or 64-bit) SP1
	Microsoft Windows 7 Professional (32-bit or 64-bit) SP1
	Microsoft Windows 8.1 (32-bit or 64-bit)
	Microsoft Windows 8.1 Pro (32-bit or 64-bit)
Operating system	Microsoft Windows 10 Home (32-bit or 64-bit)
	Microsoft Windows 10 Pro (32-bit or 64-bit)
	Supported languages: English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel Core i3 2 GHz or higher
Momory	2 GB or more (for Windows 7 [32-bit])
Memory	4 GB or more (for Windows 7 [64-bit], Windows 8.1, and Windows 10)
HDD	40 GB or more of free space
Display	1,024 × 768 or higher resolution
	Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using public telephone line)
	USB ports (Maximum of 2 ports) (Required only for the server PC that works as VRF controller)
Interface	1 USB port is required for WHITE-USB-KEY connection
	1 USB port is required for Echelon U10 USB Network Interface
	NOTE: Maximum number of required USB ports depends on the applicable system configuration.
Graphic accelerator	Microsoft DirectX 9.0c compatible
Software	Adobe Reader 9.0 or later

• Echelon U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF network)

# ■ Specification summary

	Туре	Function	UTY-AL- GXZ1	UTY- PLGXA2 (Option)	UTY- PLGXR2 (Option)	UTY- PLGXE2 (Option)	UTY- PLGXP2 (Option)	UTY- PLGXX2 (Option)	Remark
		Max. system controller per VRF network	1	_	_	_	_	_	
		Max. VRF networks supported	1	_	_	_	_	_	
System specification		Max. indoor units/remote controller groups per VRF network	400	_	_	_	_	_	
		Max. indoor units/remote controller groups							
		per system controller	400	-	-	-	_	_	4 VRF networks
		Multiple site display	10	_	_	_	_	_	
Cita aumamilai		2D/3D graphical layout view	_		_	_	_	_	
Site supervisi	on	List display	•	_	_	_	_	_	Quick control from display available
		Tree display	•	_	_	_	_	_	Quick control from display available
		Start/Stop, Operation mode, Room temper-		_	_	_	_	_	
		ature							
		Fan speed, Airflow direction	•				_	_	
	Locality distance I	Economy mode	•		_	_	_	_	
	Individual	Antifreeze	•	_	_	_	_	_	
		Remote control prohibition setting Temperature upper and lower limit setting	•	_		_	_	_	
		Filter sign reset	•						
		Human sensing	•		_		_	_	
Operation		Transactioning							Week of year, day of month, day of week
control	Schedule	Annual schedule	•	_	_	_	_	_	setting Holiday special day settings
		Low noise mode weekly schedule	•	_	_	_	_	_	Outdoor unit control only
		Number of groups	400	_	_	_	_	_	
	Group manage-	Group in group	3 levels	_	_	_	_	_	Level 1—2—3
	ment	Max. overlap definitions	400	_	_	_	_	_	1 unit may belong to up to 400 groups.
		Auto generation	•		_	_	_	_	By site, building and floor
	Others	Memory operation	•		_	_	_	_	Operation pattern memorized and reused.
		Pattern operation	•	_					Reuse operation pattern once used.
Operation sta	tus monitoring	Controlled status	•		_		_	_	See items controlled by operation.
Deans tonone	- tue	Special operation	•	_	_	_	_		Defrost, oil recovery
Room temper	alure	Room temperature  Error notification	•						
Error manage	ment	Audible alarm	•						
Lifoi manage	mont	Error e-mail notification	•						
		Error history	1 year		_	_	_	_	
History mana	gement	Operation history and status history	1 year		_	_	_	_	
		Indoor unit rotation	_		_	•	_	_	
		Outdoor unit capacity save	_		_	•	_	_	
Consultation		Peak cut control	_	_	_	1 month	_	_	
Energy saving	g management	Power consumption monitor	_	_	_	•	_	_	
		Electricity meters supported	_	_	_	200	_	_	Outdoor unit required per connection.
		Power consumption information	_	_	_	3 years	_	_	
		Apportionment charge calculation	_	•	_	_	_	_	
		Apportionment charge bill creation	_	•	_	_	_	_	
		Tenant (block) setting	_	1,600	_	_	_	_	
Element eta en elem		Common facilities apportionment setting		•				_	
Electricity cha	arge apportionment	Rated power consumption allotment setting Electricity meters supported		200	_		_		Come meters used for energy source
		Electricity meters supported Electricity charge apportionment period							Same meters used for energy saving.
		m 11 1 101 1		2 years			•		
		Cooling and heating information		•			_		
		Internet, telephone line support	_	_	•	_	_	_	
		Max. client connection per server			5				
Remote contr	ol	Max. host connection from client	_	_	10	_	_	_	
		Data encryption	_	_	•	_	_	_	SSL used.
		External device control function	_	_	_	_	_	•	
		Web operation	•	_	_	_	_	_	
Others		User control	•	_	_	_	_	_	Authorization level setting
		Database import/export (manual)	•	_	_	_	_	_	-
		Periodical backup	•	_	_	_	_	_	
		The refrigerant systems of non-operation status function	•	_	_	_	_	_	
		Auto start setting	•	_	_	_	_	_	
		Multiple language display	•	•	•	•	_	_	English, Chinese, French, German, Spanish, Russian, Polish
		Floor layout editor	•	_	_	_	_	_	
		Floor layout import/export	•	_	_	_	_	_	
		Online software update	•		_	_		_	

#### NOTES:

- \*: To display room temperature on monitor, connect wired remote controller to indoor unit and perform function setting for detecting temperature using mounted sensor.
- In S and V series, there are some unusable functions, such as energy saving function and electricity meter use.
- The electricity charge apportionment function of VRF system can only be performed from one equipment simultaneously.