



CONTROLS AND ACCESSORIES

LG Air Conditioning Technologies



ABOUT LG



About LG Electronics USA, Inc.

LG Electronics is a global innovator in technology and consumer electronics with a presence in almost every country and an international workforce of more than 75,000. LG's four companies – Home Appliance & Air Solution, Home Entertainment, Vehicle component Solutions and Business Solutions – combined for global sales of over USD 63 billion in 2021. LG is a leading manufacturer of consumer and commercial products ranging from TVs, home appliances, air solutions, monitors, service robots, automotive components and its premium LG SIGNATURE and intelligent LG ThinQ brands are familiar names world over.

Please visit www.LG.com.

LG Electronics USA Air Conditioning Technologies

The LG Electronics USA Air Conditioning Technologies business is based in Alpharetta, Georgia. LG is a leading player in the global air conditioning market, manufacturing both commercial and residential air conditioners and providing total sustainability and building management solutions. From consumer and individual units to industrial and specialized air conditioning systems, LG provides a wide range of products for heating, ventilating, and air conditioning. **Visit www.lghvac.com for more information.**

By utilizing advanced control strategies, LG Air Conditioning systems not only save energy, they also increase operational convenience and comfort.















LG offers a variety of controls, including individual zone control, central control, and building management system integration control options that scale easily to meet the requirements of buildings small to large. User-friendly controllers from LG enable users to control and monitor their entire system at the touch of a button. Centralized controllers provide building owners, facilities managers and maintenance personnel with the ability to manage the entire LG air conditioning system from a single location. This provides convenient management of air conditioning units and other facilities equipment—even in multiple sites—which helps ensure the highest energy savings are realized from the system.
















LG building controllers allow for interfacing with third party building management systems and also control sub-market segments such as lighting control, security control and access control. Built to be compatible with the entire family of LG Air Conditioning Technologies products, LG controls are the best way to achieve the highest performance from LG systems.

- ENHANCED ENERGY SAVINGS** While LG Air Conditioning systems are engineered for efficiency, there are many ways that LG controls can help save even more energy with advanced features like scheduling and setpoint range limiting.
- CONVENIENCE** LG controls come with features that make them easy to use and simple to control. From our customizable touch screen interfaces to automatic energy saving features, you are sure to be pleased with the aesthetic appeal of the controls interface as well their intuitive ease of use.
- EASY TO INSTALL** The LG communications network is based on simple two-wire, daisy chain architecture that reduces installation cost and complexity. This allows the system to be installed by the mechanical contractor, eliminating the need for costly building management system integration contractors and specialists.

CONTROLS LINEUP

BUILDING MANAGEMENT	CENTRAL CONTROLLERS	SYSTEM INTEGRATION DEVICES	
System	System	Integration Solutions	Specialty Application Devices
LG MultiSITE™ VM3  PBACNBTR1B	AC SMART™ 5  PACS5A000	LG MultiSITE™ Communications Manager  PBACNBTR0A	Dry Contact for Thermostat  PDRYCB320
MultiSITE™ Supervisor  ZSWSUPN** (Only for use with LG MultiSITE™ VM3)	ACP 5  PACP5A000		Universal Dry Contact with Economizer Interface  PDRYCB400
LG MultiSITE™ Network Controllers  PBASNC8010, PBASNC8025 PBASNC8100, PBASNC8200			Simple Dry Contact  PDRYCB100
LG MultiSITE™ E10 (Multi-Purpose)  PBASE10			Dry Contact for Modbus®  PDRYCB500
			PDI (Power Distribution Indicator)  PQNUD1S41 Premium (8 port)
			PI-485 for DFS  PMNFP14A1
			IO Module (Input / Output Module)  PEXPMB000

INDIVIDUAL CONTROLLERS	ACCESSORIES		
Remote Controllers	Control Accessories	MultiSITE™ CRC1 Accessories	MultiSITE™ CM/VM3 Accessories
<div>LG MultiSITE™ Remote Controllers</div> <div></div> <div>PREMTBVC2, 3, 4 (With various options)</div>	<div>Remote Temperature Button Sensor</div> <div></div> <div>ZRTBS01</div>	<div>Zigbee® Pro Wireless Card</div> <div></div> <div>ZVRCZPWC1</div>	<div>LON Module</div> <div></div> <div>ZHWLONWK0</div>
<div>LG MultiSITE™ Room Controllers</div> <div></div> <div>VUCQMS8250, VUCQMS8350, VUCQMS8650</div>	<div>Group Control Wire</div> <div></div> <div>PZCWRCG3</div>	<div>Wireless Door/Window Switch</div> <div></div> <div>ZVRCZDWS1</div>	<div>Wall Power Adapter</div> <div></div> <div>ZHWPWADTR</div>
<div>Simple Wired Remote Controller</div> <div></div> <div>PREMTC00U</div>	<div>Extension Cable</div> <div></div> <div>PZCWRC1</div>	<div>Wireless Occupancy Sensor</div> <div>Wall<div></div><div>ZVRCZWOC1</div></div> <div>Ceiling<div></div><div>ZVRCZCOC1</div></div>	<div>Remote I/O Module (16)</div> <div></div> <div>ZHWREMIO16</div>
<div>Wireless Remote Controller</div> <div></div> <div>PWLSSB21H</div>		<div>CO2 Accessory Card for MS8x50</div> <div></div> <div>VCM8001V504</div>	<div>Remote I/O Module (34)</div> <div></div> <div>ZHWREMIO34</div>
<div>Deluxe Wired Remote Controller</div> <div></div> <div>PREMTA200</div>		<div>CRC2 Water Leak Sensor</div> <div></div> <div>ZVRCZWLS1</div>	
<div>Standard III Wired Remote Controller</div> <div></div> <div>PREMTB100</div>		<div>CRC1/2 Door & Window Contact</div> <div></div> <div>ZVRCZDWC1</div>	
		<div>Zigbee® Sensor CO2 w/Temp & Humidity Wall Mounted for MS8x50</div> <div></div> <div>SEDCO2G5045</div>	
		<div>Wi-Fi Accessory Card for MS8x50</div> <div></div> <div>VCM8002V504</div>	
	<div>Wi-Fi Module w/ Cable</div> <div></div> <div>PWFMD200</div>		

LG MULTISITE™ VM3

PBACNBTR1B

The LG MultiSITE™ VM3 is powered by the Niagara 4 Framework®, an industry leading integration platform that provides a common design language to integrate seamlessly into any diverse building portfolio. With its modern UX framework, advanced analytics and visualization, the MultiSITE™ VM3 provides a best in class building management system. The VM3 is the building management controller which ties together LG VRF equipment and third party equipment via common building management platform, while supporting BACnet®, LonWorks®, Fox and other protocols depending on user licensing.



Features

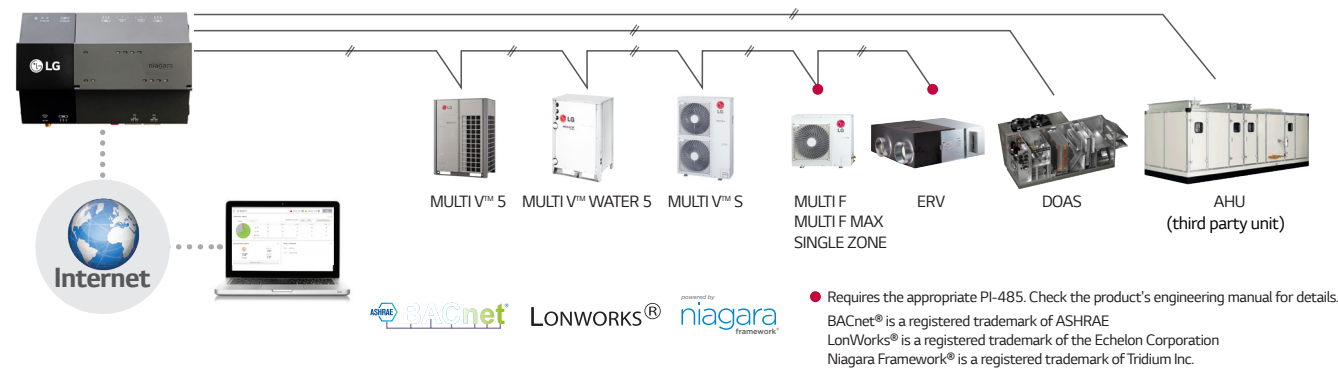
- Control and monitor mechanical and electrical systems in building such as HVAC, lighting and power
- Integrates LG Multi V™ systems, Multi F systems, and select LG single zone systems
- Supports BACnet®, LonWorks®, Fox and other protocols depending on licensing
- An “Open” license model providing system owners a choice of service providers and procurement partners for scalability
- Powered by Niagara Framework®
- Two 10/100Mb Ethernet ports
- Two isolated RS485 ports
- Native Wi-Fi capability (WAP or Client)
- Intuitive LG user interface

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

Accessories

Description	Model
LON Module	ZHWLONWK0
Wall Power Adapter	ZHWPWADTR
Remote I/O Module (16)	ZHWREMIO16
Remote I/O Module (34)	ZHWREMIO34
MultiSITE™ Supervisor	ZSWSUPN**

System Communication Architecture



LG MULTISITE™ COMMUNICATIONS MANAGER

PBACNBTROA

The LG MultiSITE™ Communications Manager is a compact and powerful controller that allows third party integration of an LG HVAC system into any Building Management System via BACnet®, LonWorks® and Fox protocols. The MultiSITE™ Communications Manager is a network-ready, out-of-the-box integration solution and includes the LG pre-engineered, graphical user interface. The MultiSITE™ Communications Manager is easily configurable and requires no additional software.



Features

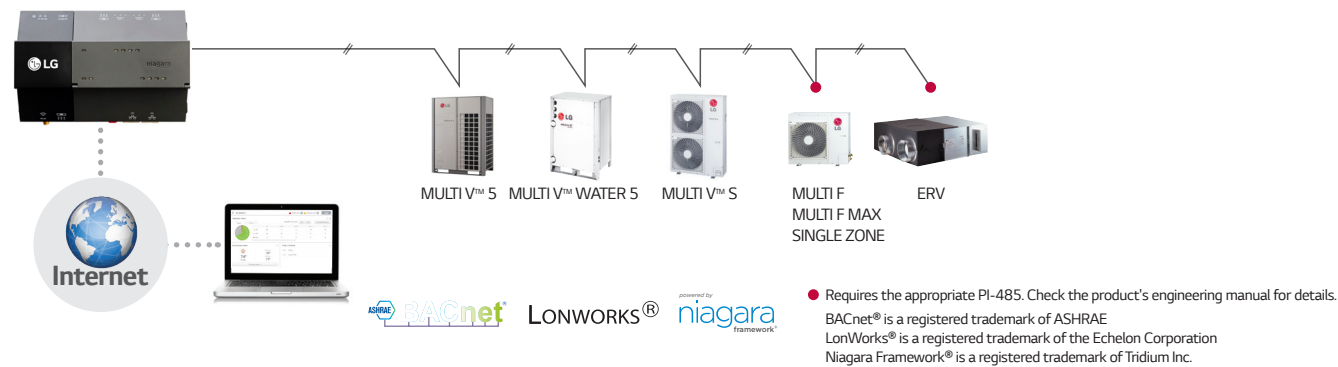
- Integrates Multi V™, Multi F, and select single zone systems with third party building management systems using BACnet®, LonWorks® and Fox protocols
- Controls up to 128 devices
- Maximum number of LG Devices for LonWorks® export: 40
- Provides graphical user interface that allows centralized control

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Accessories

Description	Model
LON Module	ZHWLONWK0
Wall Power Adapter	ZHWPWADTR

System Communication Architecture



LG MULTISITE™ NETWORK CONTROLLER

PBASNC8000 Series

PBASNC8010 (10 Device/500 Point Cap + 1 Yr SMA)
 PBASNC8025 (25 Device/1250 Point Cap + 1 Yr SMA)
 PBASNC8100 (100 Device/5000 Point Cap + 1 Yr SMA)
 PBASNC8200 (200 Device/10000 Point Cap + 1 Yr SMA)

The LG MultiSITE™ Network Controller (MS-NC8000) is a compact, embedded IoT (Internet of Things) controller and server platform for connecting multiple and diverse devices and sub-systems. With internet connectivity and web serving capability, the MultiSITE™ Network Controller (MS-NC8000) provides integrated control, supervision, data logging, alarming, scheduling and network management. It streams data and rich graphical displays to a standard web browser via an Ethernet or wireless LAN, or remotely over the internet.



Features

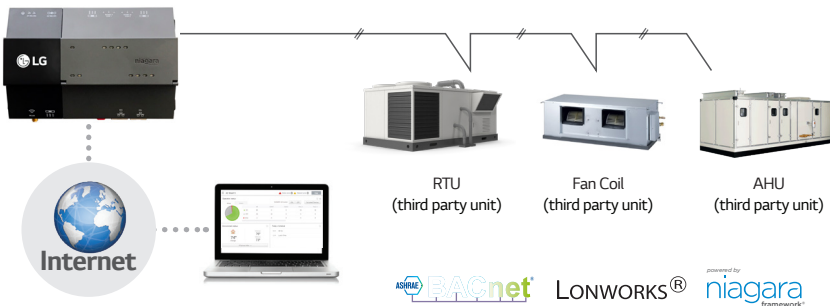
- Control and monitor mechanical and electrical systems in building such as HVAC, lighting and power
- Supports BACnet®, LonWorks®, Fox and other protocols depending on licensing
- Powered by Niagara Framework®
- Two 10/100Mb Ethernet ports
- Two isolated RS485 ports
- Native Wi-Fi capability (WAP or Client)

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

Accessories

Description	Model
LON Module	ZHWLONWK0
Wall Power Adapter	ZHWPWADTR
Remote I/O Module (16)	ZHWREMIO16
Remove I/O Module (34)	ZHWREMIO34
MultiSITE™ Supervisor	ZWSUPN**

System Communication Architecture



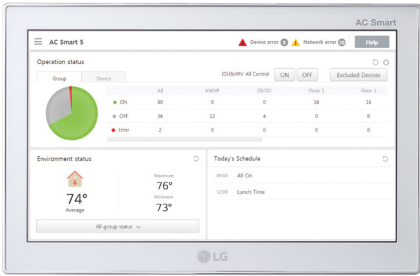
BACnet® is a registered trademark of ASHRAE
 LonWorks® is a registered trademark of the Echelon Corporation
 Niagara Framework® is a registered trademark of Tridium Inc.

AC SMART™ 5

PACS5A000

Features

Large 10.2 inch touch screen with a responsive user interface (HTML 5) for consistent system control design across a variety of different remote devices.



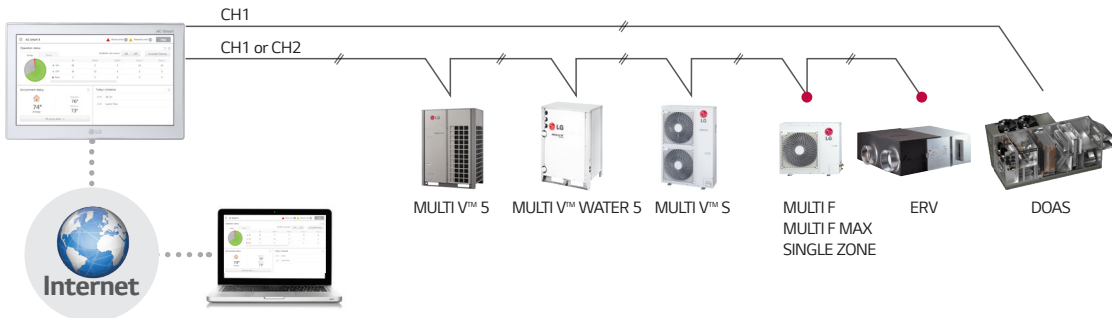
Model Name	PACS5A000
Maximum Number of Indoor Units	Up to 128
Individual / Group Control	●
Ventilation Control	●
Individual Controller Lock	● (Temperature / Mode / Fan / All)
Error Check	Self Diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Monthly / Yearly / Exception Day
Operation History	●
Visual Navigation	●
Operation Time Limit	●
Operation Trend	●
Temperature Limit	●
Internet Access ¹⁾	●
Auto Changeover / Setback	● (Two set)
Power Consumption Monitoring (with PDI)	●
Interlock Control	●
Virtual Group Control	●
Emergency Alarm Display	●
IO Module Interlocking	●
External IO Port No.	DI 2 / DO 2
Dimensions W x H x D (in.)	10 x 6-5/8 x 1-3/16

¹⁾ An IP address is required to access the central controller through the internet.

Supports IPV4 and IPV6.

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

System Communication Architecture



● Requires the appropriate PI-485. Check the product's engineering manual for details.

ACP 5 (ADVANCED CONTROL PLATFORM)

PACP5A000



Features

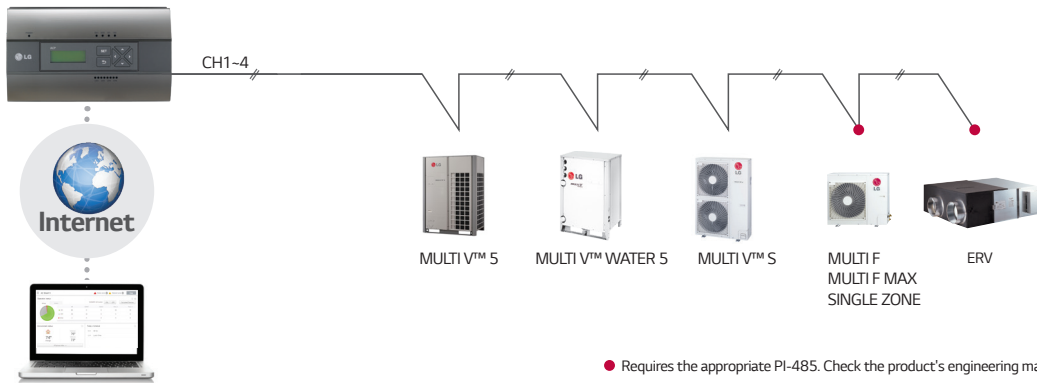
Model Name	PACP5A000
Maximum Number of Indoor Units	Up to 256
Individual / Group Control	●
Ventilation Control	●
Individual Controller Lock	● (Temperature / Mode / Fan / All)
Error Check	Self Diagnosis
Mode Change	Cooling / Heating / Auto / Dehumidification / Fan
Schedule	Daily / Weekly / Monthly / Yearly / Exception Day
Operation History	●
Visual Navigation	●
Operation Time Limit	●
Operation Trend	
Temperature Limit	●
Internet Access ¹⁾	●
Auto Changeover / Setback	● (Two set)
Power Consumption Monitoring (with PDI)	●
Interlock Control	●
Virtual Group Control	●
Emergency Alarm Display	●
IO Module Interlocking	●
External IO Port No.	DI 10 / DO 4
Dimensions W x H x D (in.)	10-11/16 x 6-3/16 x 2-5/8

¹⁾ An IP address is required to access the central controller through the internet.

Supports IPV4 and IPV6.

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System Communication Architecture



● Requires the appropriate PI-485. Check the product's engineering manual for details.

LG MULTISITE™ E10

PBASE10

LG MultiSITE™ Edge 10, IP-based field equipment controller powered by the Niagara Framework® which drives applications such as zone temperature control, and the operation of fan coil units, single stage air handling units, water-source heat pumps and more. LG MS-E10 controllers run the full Niagara stack, with 10 points of on-board IO and IO-R-34 expansion capability.



Features

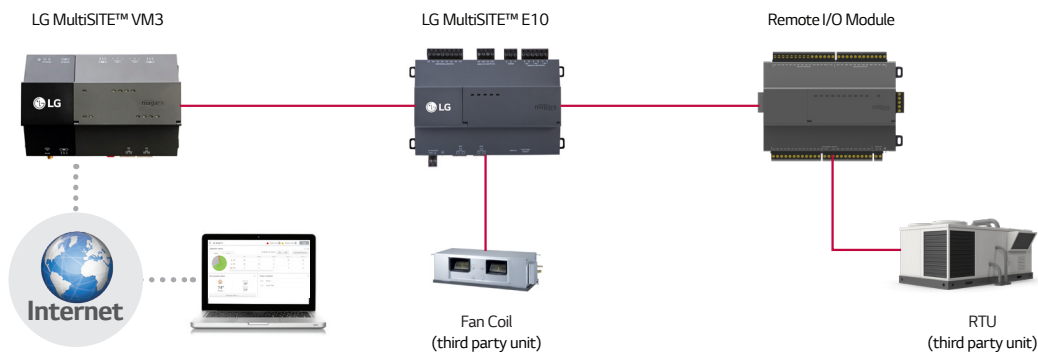
- LG MultiSITE™ Edge 10 (E10) controllers can be daisy chained to continue network connectivity and eliminate the need for separate wiring back to a switch
- Connect LG MultiSITE™ E10 controllers to your main building or IT network and manage them directly with a Supervisor alongside of a JACE®
- Use the secondary Ethernet port of the JACE® 8000 to create a private network of LG MS-E10 controllers

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

Accessories

Description	Model
Supervisor 3 Niagara networks	ZWSUPN03A
Supervisor 10 Niagara networks	ZWSUPN10A
Supervisor 100 Niagara networks	ZWSUPN00A
Remote I/O Module 34 Point	ZHWREMIO34

System Communication Architecture



JACE® is a registered trademark of Tridium Inc.

DRY CONTACT

PDRYCB100

Simple Dry Contact



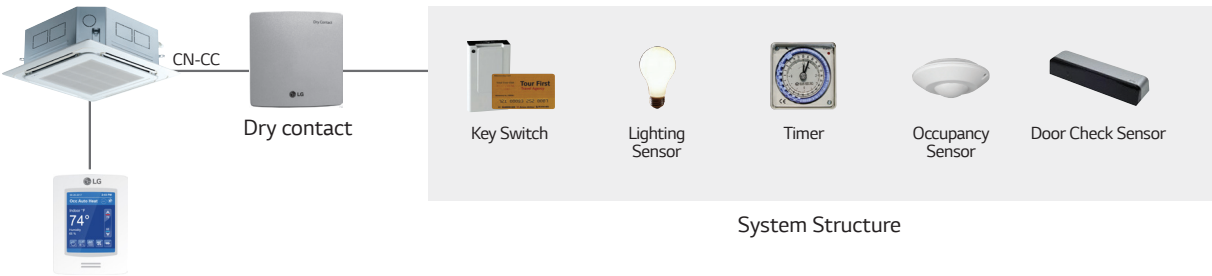
Features

Model Name	PDRYCB100
Contact Point	One Contact Point
Power Input	AC 24V
Voltage / Non Voltage Input	-
On / Off Control	●
Lock / Unlock	-
Thermo Off	-
Energy Saving	-
Temperature Setting	-
Error Monitoring	●
Operation Monitoring	●
Dimensions W x H x D (in.)	4-1/8 x 3-1/16 x 1-3/8

* Maximum operation AC : 2A

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

System Communication Architecture



DRY CONTACT

PDRYCB320

Dry Contact for Thermostat (5-12V dc, 24V ac)



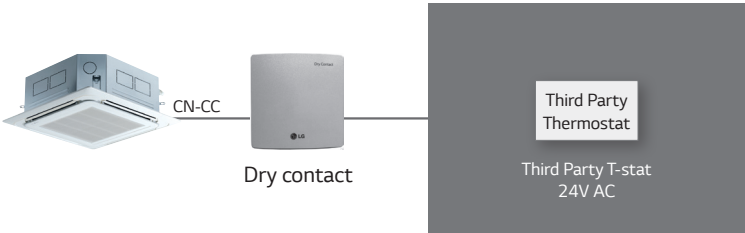
Features

Model Name	PDRYCB320
On / Off Control	●
Mode Control	● (Cool, Heat, Fan)
Fan Speed Setting	● (Low, Middle, High)
Thermo Off	●
Error Monitoring	●
Operation Monitoring	●
Rotary Switch 1	Operating Set Temperature Selection
Rotary Switch 2	Operating Logic Selection
Dimensions W x H x D (in.)	4-1/8 x 3-1/16 x 1-3/8
Power Input	24V AC

* Maximum operation AC : 2A

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

System Communication Architecture



DRY CONTACT

PDRYCB400

Universal Dry Contact with Economizer Interface



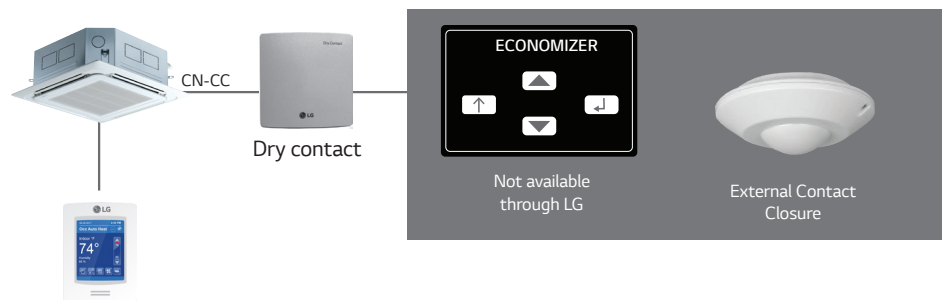
Features

Model Name	PQDSBC1
On / Off	●
Economizer	●
Occupied / Unoccupied	●
Remote Lock / Unlock	●
Compressor Stop	●
Dimensions W x H x D (in.)	4-1/8 x 3-1/16 x 1-3/8

* Maximum operation AC : 2A

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

System Communication Architecture



DRY CONTACT

PDRYCB500

Dry Contact for Modbus® Gateway for Indoor Units



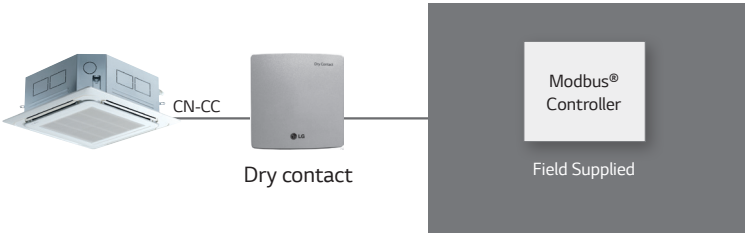
Features

Model Name	PDRYCB500
On / Off Control	●
Mode Control	● (Cool, Heat, Fan)
Fan Speed Setting	● (Low, Middle, High)
Thermo Off	●
Error Monitoring	●
Operation Monitoring	●
Modbus® Configuration	2 wire RS485, Modbus® RTU Slave, 9600 Baud
Dimensions W x H x D (in.)	4-3/4 W x 4-3/4 H x 1-1/4 D
Power Input	12V DC

* Maximum operation AC : 2A

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

System Communication Architecture



I/O MODULE (INPUT/OUTPUT MODULE)

PEXPMB000



Features

Model Name		PEXPMB000
Linkable Products		AC Smart5 ACP5
Communication	RS-485	1
I/O	DI	3
	DO	3
	UI	4
	AO	4

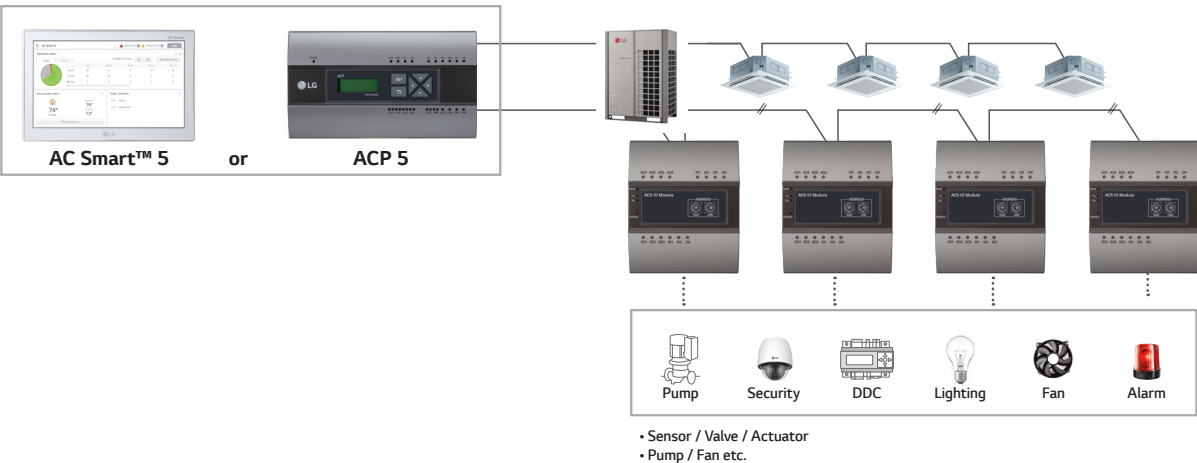
	AC Smart™ 5	ACP 5
Number of Indoor Units	64-128	128-256
Max. I/O Points	130	224
Maximum Number of Node	9	16

Interface Type		Min.	Max.
Analog Input	NTC 10k	0.68 kΩ	177 kΩ
	PT 1000	803 kΩ	1573 kΩ
	Ni 1000	871.7 kΩ	1675.2 kΩ
	DC (Voltage)	0 V	10 V
	DC (Current)	0 mA	20 mA
Analog Output	-	0 V	10 V
Digital Input	Binary Input (Dry Contact)	-	-
Digital Output	Normal open	-	30VAC / 30VDC, 2A

* Maximum number of Indoor units may be reduced by increasing the number of I/O points.

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

System Communication Architecture



NOTE: For a full list of compatible features, check the latest Engineering Manual.

PI485 GATEWAY

PMNFP14A1

PI-485 gateway for communication between LG Outdoor Units and the LG Central Controllers such as AC Smart IV, ACP IV BACnet®, ACP LonWorks®, etc.

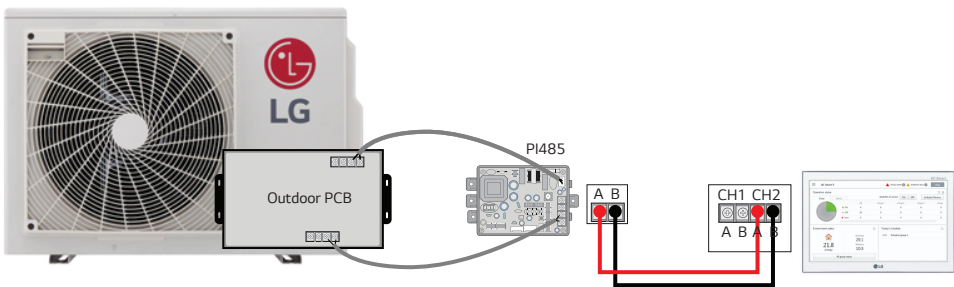


Features

Model Name	PMNFP14A1
Max Number of Indoor Units	64
Max Number of Outdoor Units	1
LG Communications	1 Channel/RS-485 V-Net
Dimensions W x H x D (in.)	5-3/16 x 3-5/16 x 1-3/8

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System Communication Architecture



MULTISITE™ REMOTE CONTROLLER

PREMTBVC2

PREMTBVC3 (WITH MOTION AND HUMIDITY)

PREMTBVC4 (WITH Zigbee® PRO WIRELESS NETWORK)

Features

The LG MultiSITE™ Remote Controller is a part of the LG MultiSITE™ Controls Suite. Featuring a customizable home screen with a highly intuitive user interface, it allows customers to tailor the functions and appearance to meet the needs of their application.

In addition to the flexibility of the user interface, the LG MultiSITE™ Remote Controllers allow integration with a Building Management System via its onboard BACnet® MS/TP connectivity. The touch screen, coupled with Zigbee® wireless compatibility provides a complete out of the box solution.



Model Name	PREMTBVC2 / PREMTBVC3 / PREMTBVC4
BACnet® MS/TP	●
Zigbee® Pro Wireless Network	●
Motion (PIR) Sensor	●
Humidity Display	●
Function Code Search Tool	●
Configurable Home Screen	●
Screen Saver	●
On / Off	●
Fan Speed Control	●
Temperature Setting	●
Mode Change	●
Additional Mode Setting	●
Auto Swing	●
Vane Control (Louver Direction)	●
E.S.P. (External Static Pressure)	●
Scheduling	●
Digital Color Display	●
Indoor Temperature Display	●
Time Display	●
Date Display	●
Occupancy Status	●
Multilanguage Support	●
Electric Failure Compensation	●
Child Lock	●
Filter Sign Time Remaining & Alarm	●
Operation Status LED	●
Dimensions W x H x D (in.)	3.39 x 4.72 x 1.06
Backlight	●

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

Accessories

Description	Model
Zigbee® Pro Wireless Card	ZVRCZPWC1
Wireless Door & Window Switch	ZVRCZDWS1
Wireless Ceiling Mounted Occupancy Sensor	ZVRCZWOC1
Wireless Wall Mounted Occupancy Sensor	ZVRCZCOC1

MULTISITE™ VAV ROOM CONTROLLER

VUCQMS8250

Features

The LG MultiSITE™ MS8250 VAV Room Controller is a part of the LG MultiSITE™ Controls Suite and is a cost-effective, low-voltage, microprocessor-based room controller for variable air volume and zone equipment.

- Customizable color digital touch screen interface with Multi-language support
- Configurable to support damper control for Pressure Independent (PI) and Pressure Dependent (PD) VAV systems.
- Pre-programmed, containing all required I/O to accomplish VAV Application.
- Accurate temperature control using a Proportional-Integral (PI) algorithm.
- BACnet® (Available BACnet® options listed under Connectivity) or Modbus®
- On-Board Zigbee® Communication Module
- Custom LUA script can be uploaded to the Room Controller
- Passwords can be set to prevent unauthorized user access to main screen adjustments and/or configuration menu parameters
- Occupied and unoccupied cooling and heating temperature setpoints
- Error code display during unit or system malfunction
- Advanced PIR Occupancy Functions



Model Name	MS8250
BACnet® MS/TP	●
Zigbee® Pro Wireless Network	●
Motion (PIR) Sensor	●
Humidity Display	●
Configurable Home Screen	●
On / Off	●
Temperature Setting	●
Scheduling	●
Digital Color Display	●
Indoor Temperature Display	●
Time Display	●
Date Display	●
Occupancy Status	●
Multilanguage Support	●
Dimensions W x H x D (in.)	4.72" H x 3.39" W x 1.06" D
Backlight	●

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

Accessories

Description	Model
Wireless Door & Window Switch	ZVRCZDWS1
Wireless Ceiling Mounted Occupancy Sensor	ZVRCZWOC1
Wireless Wall Mounted Occupancy Sensor	ZVRCZCOC1
Zigbee® Pro Wireless Card	ZVRCZPWC1
Zigbee® Sensor CO2 w/Temperature & Humidity	SEDCO2G5045 (Wall Mounted)
CO2 Accessory Card	VCM8001V504
Wi-Fi Accessory Card	VCM8002V504

MULTISITE™ ROOM CONTROLLER

VUCQMS8350

For Commercial / Hotel HVAC Fan Coil Applications

Features

The LG MultiSITE™ MS8350 Room Controller is a part of the LG MultiSITE™ Controls Suite and is a cost-effective room controller for upgrading low-voltage fan coil unit thermostats.

- Customizable color digital touch screen interface with Multi-language support
- BACnet® (Available BACnet® options listed under Connectivity) or Modbus®
- Automatic Demand Response (ADR) used to reduce energy load when electric grid contingencies threaten supply-demand balance
- On-Board Zigbee® Communication Module
- Custom LUA script can be uploaded to the Room Controller
- Passwords can be set to prevent unauthorized user access to main screen adjustments and/or configuration menu parameters
- Occupied and unoccupied cooling and heating temperature setpoints
- Advanced PIR Occupancy Functions



Model Name	MS8350
BACnet® MS/TP	●
Zigbee® Pro Wireless Network	●
Motion (PIR) Sensor	●
Humidity Display	●
Configurable Home Screen	●
On / Off	●
Fan Speed Control	●
Temperature Setting	●
Scheduling	●
Digital Color Display	●
Indoor Temperature Display	●
Time Display	●
Date Display	●
Occupancy Status	●
Multilanguage Support	●
Dimensions W x H x D (in.)	4.72" H x 3.39" W x 1.06" D
Backlight	●

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

Accessories

Description	Model
Wireless Door & Window Switch	ZVRCZDWS1
Wireless Ceiling Mounted Occupancy Sensor	ZVRCZWOC1
Wireless Wall Mounted Occupancy Sensor	ZVRCZCOC1
Zigbee® Pro Wireless Card	ZVRCZPWC1
Zigbee® Sensor CO2 w/Temperature & Humidity	SEDCO2G5045 (Wall Mounted)
CO2 Accessory Card	VCM8001V504
Wi-Fi Accessory Card	VCM8002V504

MULTISITE™ ROOM CONTROLLER

VUCQMS8650

For Rooftop Unit, Heat Pump and Indoor Air Quality Applications

Features

The LG MultiSITE™ MS8350 Room Controller is a part of the LG MultiSITE™ Controls Suite and is a cost-effective room controller for rooftop units, heat pumps, and indoor air quality applications.

- Customizable color digital touch screen interface with Multi-language support
- BACnet® (Available BACnet® options listed under Connectivity) or Modbus®
- Automatic Demand Response (ADR) used to reduce energy load when electric grid contingencies threaten supply-demand balance
- On-Board Zigbee® Communication Module
- Custom LUA script can be uploaded to the Room Controller
- Passwords can be set to prevent unauthorized user access to main screen adjustments and/or configuration menu parameters
- Occupied and unoccupied cooling and heating temperature setpoints
- Advanced PIR Occupancy Functions



Model Name	MS8650
BACnet® MS/TP	●
Zigbee® Pro Wireless Network	●
Motion (PIR) Sensor	●
Humidity Display	●
Configurable Home Screen	●
On / Off	●
Fan Speed Control	●
Temperature Setting	●
Scheduling	●
Digital Color Display	●
Indoor Temperature Display	●
Time Display	●
Date Display	●
Occupancy Status	●
Multilanguage Support	●
Dimensions W x H x D (in.)	4.72" H x 3.39" W x 1.06" D
Backlight	●

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

Accessories

Description	Model
Wireless Door & Window Switch	ZVRCZDWS1
Wireless Ceiling Mounted Occupancy Sensor	ZVRCZWOC1
Wireless Wall Mounted Occupancy Sensor	ZVRCZCOC1
Zigbee® Pro Wireless Card	ZVRCZPWC1
Zigbee® Sensor CO2 w/Temperature & Humidity	SEDCO2G5045 (Wall Mounted)
CO2 Accessory Card	VCM8001V504
Wi-Fi Accessory Card	VCM8002V504

MULTISITE™ REMOTE & ROOM CONTROLLERS

PREMTBVC2

PREMTBVC3

(WITH MOTION AND HUMIDITY)

PREMTBVC4

(WITH Zigbee® PRO
WIRELESS NETWORK)



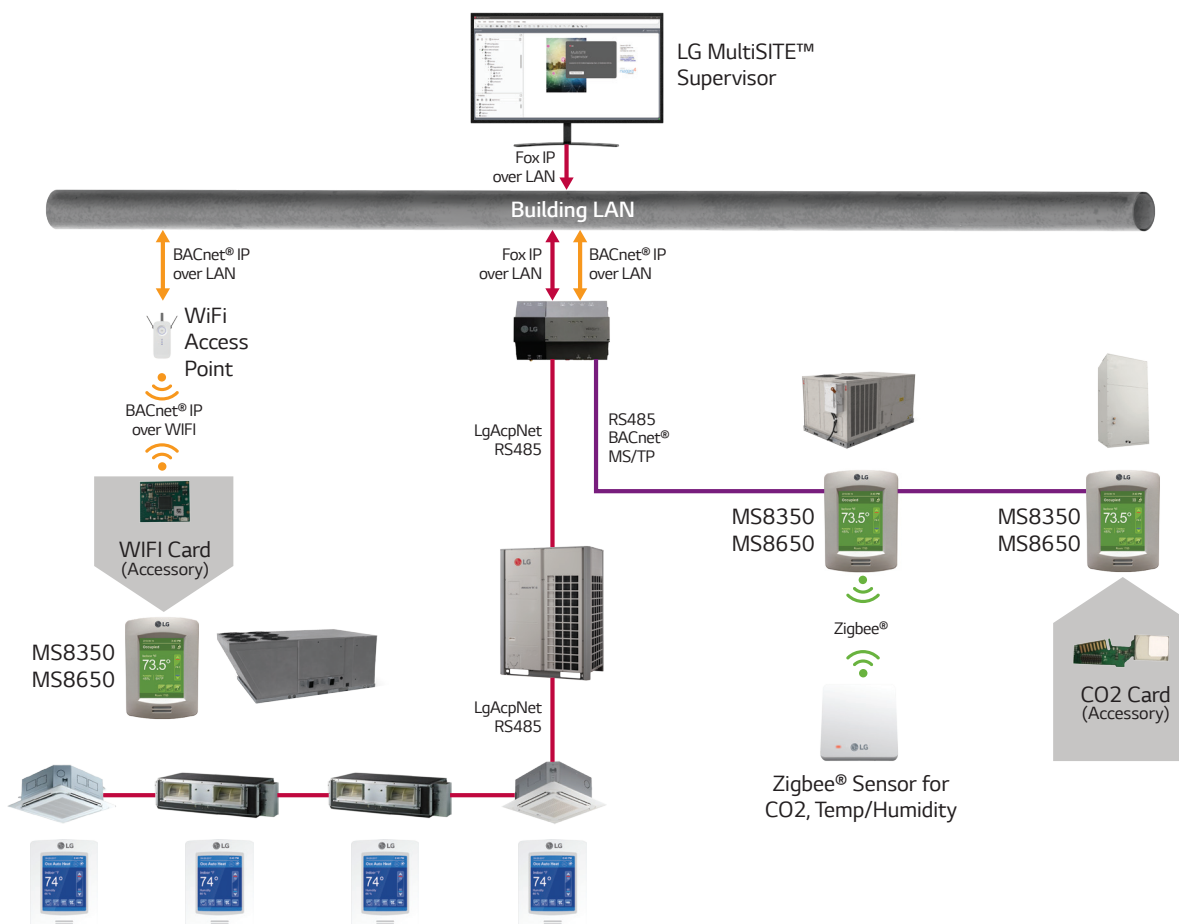
MS8250

MS8350

MS8650



System Communication Architecture



BACnet® is a registered trademark of ASHRAE
Zigbee® is a registered trademark of Zigbee Alliance

SIMPLE WIRED REMOTE CONTROLLER

PREMTC00U



Features

Model Name	PREMTC00U
On / Off	●
Fan Speed Control	●
Temperature Setting	●
Mode Change	●
Auto Swing	●
Two Setpoint Control	●
Vane Control (Louver Direction)	●
E.S.P (External Static Pressure)	●
Child Lock	●
Wireless Remote Controller Receiver	●
Dimensions W x H x D (in.)	2-3/4 x 4-3/4 x 5/8

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

WIRELESS REMOTE CONTROLLER

PWLSSB21H



Features

Model Name	PWLSSB21H
On / Off	●
Fan Speed Control	●
Temperature Setting	●
Mode Change	●
Additional Mode Setting	●
Auto Swing	●
Vane Control (Louver Direction)	●
Scheduling	●
Indoor Temperature Display	●
Dimensions W x H x D (in.)	2-3/16 x 6-3/16 x 1-3/16

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

DELUXE WIRED REMOTE CONTROLLER

PREMTA200



Features

The Deluxe Wired Remote Controller was designed for residential applications and provides an easy to use touchscreen interface for monitoring and control of an indoor unit or group of indoor units serving single zone. This remote controller supports LG ThinQ capability through built-in Wi-Fi and has a 100% touch enabled interface on a gorgeous color screen.

Model Name	PREMTA200
Intuitive Color Touchscreen Interface	●
On / Off	●
Fan Speed Control (Auto / Low / Med / High / Power)	●
Temperature Setting	●
Humidity Display	●
Additional Mode Setting	●
Auto Swing	●
E.S.P. (External Static Pressure)	●
Scheduling with Mode - Home / Away / Sleep / Awake	●
Seasonal Program Setting - Summer / Winter	●
Indoor Temperature Display	●
Time Display	●
Wi-Fi with ThinQ Capability	●
Dimensions W x H x D (in.)	4-23/32 x 4-23/32 x 19/32

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

Accessories

Description	Model
33 foot Extension Cable Assembly	PZCWRC1
Group Control Cable Kit	PZCWRCG3

STANDARD III WIRED REMOTE CONTROLLER

PREMTB100



Features

The Standard III Wired Remote Controller provides an easy to use interface for monitoring and control of a group of indoor units serving a single zone. It can be used in conjunction with a V-Net Controls Network Central Controller for scheduling and energy management functions.

Model Name	PREMTB100
Intuitive Interface	●
On / Off	●
Fan Speed Control (Auto / Low / Med / High)	●
Temperature Setting	●
Humidity Display	●
Additional Mode Setting	●
Auto Swing	●
E.S.P. (External Static Pressure)	●
Scheduling with Mode - Occupied/Unoccupied, On/Off, Setpoints, and Fan Speed	●
Indoor Temperature Display	●
Time Display	●
Dimensions W x H x D (in.)	4-3/4 x 4-3/4 x 5/8

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

Accessories

Description	Model
33 foot Extension Cable Assembly	PZCWRC1
Group Control Cable Kit	PZCWRCG3

REMOTE TEMPERATURE BUTTON SENSOR

ZRTBS01

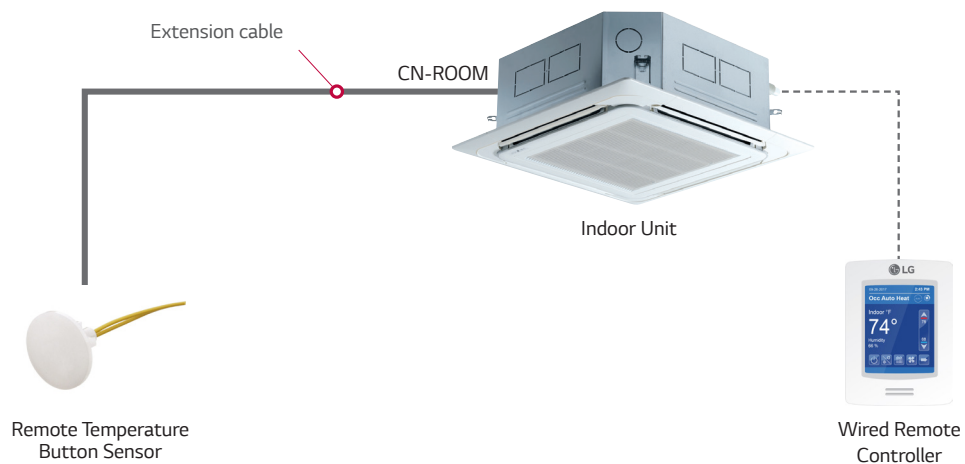


Features

- 0.8" Diameter (approximate size of a quarter) flush button mounts virtually anywhere
- Paintable with latex or oil base to match any decor
- Replaces IDU return air sensor for remote temperature sensing
- Connects to CN-ROOM on IDU PCB
- Compatible LG indoor units: All cassette and ducted IDUs for Multi V, Multi F, Multi F MAX, and Single Zone
- Applied to Ceiling Mounted Cassette, Ceiling Concealed Duct, and Hydro Kit
- Extension cable (49 ft.) is included

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

System Communication Architecture



CABLES

PZCWRCG3

PZCWRC1



Features

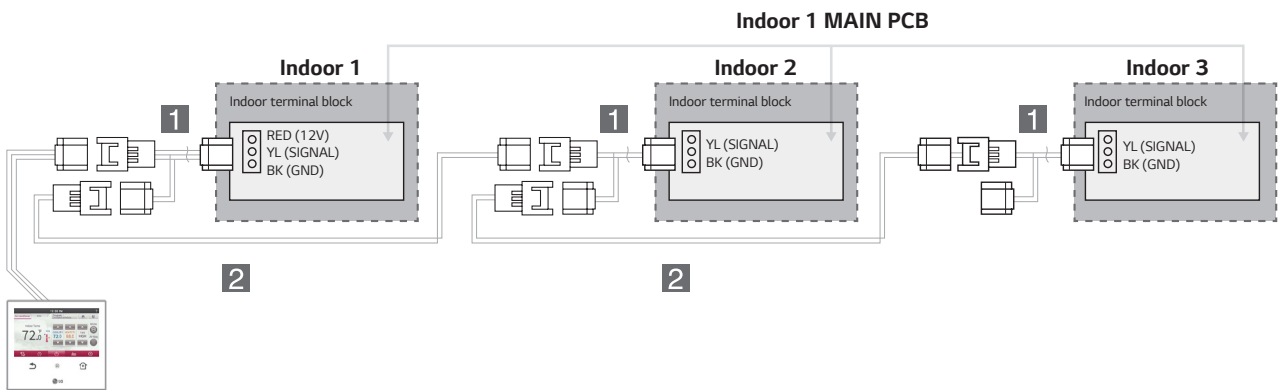
Description	Model	Length (ft.)
Group Control Cable Kit	PZCWRCG3	0.82
Extension Cable	PZCWRC1	32.8

* Maximum operation AC : 3A

Connect up to 16 indoor units with the group control cable kit. Extend the control wire up to 32.8 ft with the extension cable.

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

System Communication Architecture



Note : 1 Group Control Cable Kit
2 Extension Cable

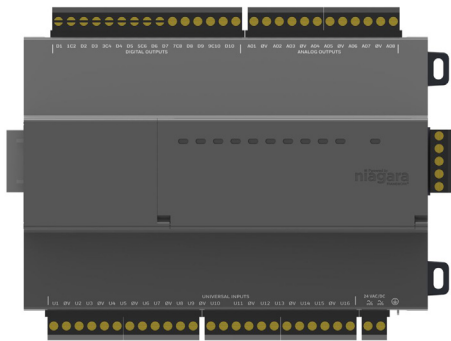
MULTISITE™ REMOTE I/O MODULE

ZHWREMIO16 ZHWREMIO34

Remote input / output modules



ZHWREMIO16



ZHWREMIO34

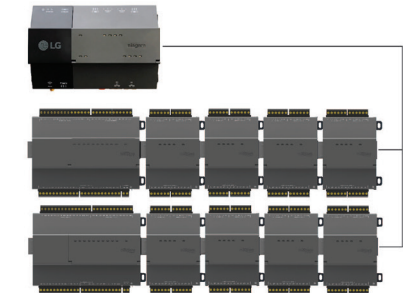
Features

- Allow MultiSITE™ VM3 to remotely interface with I / O devices up to 4,000 feet away.
- Multiple I / O devices can be used on one MultiSITE™ VM3 (≤ 250).
- Set hold time and default states for outputs based on application needs.
- Compatible with version Niagara 4 Framework® 4.3 or greater.

Model Name	ZHWREMIO16	ZHWREMIO34
Number of Outputs	4	10
Contact Type	Form A	Form A
Voltage	24VAC @ 0.5A Rated	24VAC @ 0.5A Rated
Number of Analog Outputs	4	8
Voltage	0 to 10 VDC	0 to 10 VDC
Number of Universal Inputs	8	16
Thermistors	Type 3 (10k)	Type 3 (10k)
Electrical Resistance	0 to 100K ohm	0 to 100K ohm
Voltage	0 to 10 VDC	0 to 10 VDC
Current Signal	0-20 mA w/External Resistor	0-20 mA w/External Resistor
Power	Powered from ZHWREMIO34	Requires 24 VAC/DC Source Supports up to Four ZHWREMIO16
Connectivity	RS-485	RS-485
Operating Temperature	-4 to +140°F	-4 to +140°F
Storage Temperature	-40 to +185°F	-40 to +185°F
Humidity	5 to 95%, non-condensing	5 to 95%, non-condensing
Shipping and Vibration	ASTM D4169, Assurance Level II	ASTM D4169, Assurance Level II
Dimensions W x H x D (in.)	3-7/8 x 4-1/2 x 2-7/16	7 x 4-1/2 x 2-7/16

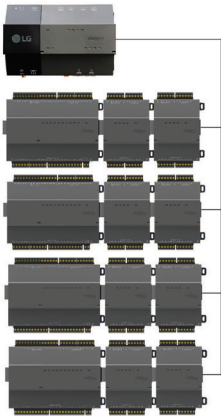
Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

Maximum Configuration for Two Panels

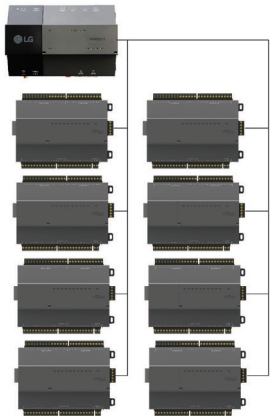


Shown with Maximum of Four ZHWREMIO16 per ZHWREMIO34

Maximum Configuration for Four Panels



Maximum Configuration for Eight Panels



Niagara 4 Framework® is a registered trademark of Tridium Inc.

MULTISITE™ LON MODULE

ZHWLONWK0

Add-on single port LON module



Features

- LonWorks® adapter with a 2-position removable screw-terminal connector plug for MultiSITE™ Communications Manager or MultiSITE™
- One LON Module for each MultiSITE™ Communications Manager. Up to 4 for each MultiSITE™ VM3 controller.
- Supports up to 40 LG Devices
- Supports a maximum of 64 LON Nodes per LON Bus on MultiSITE™ VM3 (additional licenses may be required).

Model Name	ZHWLONWK0
Power	by MultiSITE™ Communications Manager or MultiSITE™ VM3 controller
Connectivity	LonWorks®/FTT-10
Operating Temperature	-4 to +140°F
Storage Temperature	-40 to +185°F
Humidity	5 to 95%, non-condensing
Dimensions W x H x D (in.)	2-13/32 x 4-1/2 x 2-7/16

Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

LG MULTISITE™ ACCESSORIES



ZVRCZWOC1



ZVRCZMTH1



ZVRCZTRH1



ZVRCZCOC1



ZVRCZDWS1



ZVRCZDWC1



ZVRCZWLS1



VCM8002V504

Model	Description
ZVRCZPWC1/2	Zigbee® Pro Wireless Card
ZVRCZWOC1	Wireless Ceiling Mounted Occupancy Sensor
ZVRCZMTH1	CRC1/2 Motion, Temperature, Humidity sensor (Motion only for CRC1)
ZVRCZTRH1	RC2 Wireless Temperature & RH sensor
ZEDCO2G5045	CRC2 Wireless CO2, Temperature & RH sensor
ZVRCZCOC1	Ceiling Mounted Occupancy Sensor
ZVRCZDWS1	Door & Window Switch
ZVRCZDWC1	CRC1/2 Door & Window Contact
ZVRCZWLS1	CRC2 Water Leak Sensor
VCM8002V504	CRC2 WiFi Card

NOTES:



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