

# ZX Accessories

## Model: ZX-OL-U Online Connection Kit

Verdant's Online Connection Kit enables wireless mesh networking of up to 1,024 ZX or VX3 Series thermostats per device. Additional Online Connection Kits can be networked together for large properties, or where a property is comprised of multiple buildings spread over a large area.

The Online Connection Kit communicates with Verdant thermostats using Verdant's proprietary 900MHz communication protocol, negating the need for WIFI. Data collected from each thermostat is uploaded to the cloud at five minute intervals, allowing for remote management of all Verdant thermostats from any internet-connected device.

The Online Connection Kit must be plugged into an internet port with a static IP address with DHCP active. The Online Connection Kit must be whitelisted using its MAC address with unrestricted internet access. Ports 80, 443, and 22 must be open to communication.

### □ EFFORTLESS INSTALLATION

The Online Connection Kit installs in minutes. Simply connect the antenna module, ethernet cable and a power supply to the server and you are done.

### □ INTERNET CONNECTION

The server connects to the internet through an open ethernet port in the property's server room. Once connected to the internet, the server automatically starts communicating with Verdant's online management portal using a secure internet connection.

### □ WIRELESS NETWORK

The antenna module creates a wireless network in order to communicate with Verdant thermostats. The wireless mesh network allows thermostats to communicate with the server without the need for any additional networking equipment.

### □ NETWORK PROGRAMMER

A Network programmer assigns a unique network ID to every Verdant thermostat at the property to ensure secure and reliable network communication. Every Verdant thermostat programmed with the network programmer automatically joins the wireless network for the property.

Refer to the ZX or VX3 user guides for more information.



Product Type	Gateway	Root Node
SKU(s)	ZX-OL-U	ZX-RN
Wireless Frequency	N/A	902-928MHz (NA)
Case Dimensions (Imperial)	4.72" x 3.15" x 1.18"	2.4" x 1.54" x 0.78"
Case Dimensions (Metric)	120mm x 80mm x 30mm	46mm x 61mm x 19mm
Operating Voltage	12VDC 1.5A	+5VDC (nom.)
Temperature Accuracy	N/A	±1°F
Enclosure Material	Extruded Aluminum	ABS (AF312C(LG CHEM))
Ambient Operating Temp	32°F -105°F   0 -41°C	32°F -105°F   0 -41°C
Internet Connectivity	100M/1000M Base-T Ethernet	N/A
FCC ID		XEY-ZX-RN
IC		8410A-ZXRN



THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

PURSUANT TO PART 15.21 OF THE FCC RULES, ANY CHANGES OR MODIFICATIONS TO THIS EQUIPMENT NOT EXPRESSLY APPROVED BY VERDANT ENVIRONMENTAL TECHNOLOGIES, INC. MAY VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

US PATENTS: 8,369,994; 8,141,791; 7,918,406; 7,841,542; 7,838,803; RE40,437; 7,232,075; 7,185,825; 7,156,318; 7,152,806; 7,145,110; 7,058,477; 7,050,026; 7,028,912; 6,902,117; 6,789,739; 6,786,421; 6,619,555; 6,581,846; 6,578,770; CANADIAN PATENTS: CA2615065; CA2633113; CA2633121; CA2633200; OTHER PATENTS PENDING.

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