

Wave™ Commander

The Spirae Wave™ Commander is an entirely self-contained microgrid control system. It contains the hardware and software for a stand alone or networked Wave™ deployment.

A single Wave™ Commander can operate up to 25 distributed energy resources depending on asset types. Numerous Wave™ Commanders can be linked to manage portfolios of any size.

Electrical

Nominal input voltage 100 V AC...240 V AC, 24 V DC

UPS backup time Approx. 15 minutes

Communications

TCP/IP

Standard protocols such as modbus, DNP, and 61850

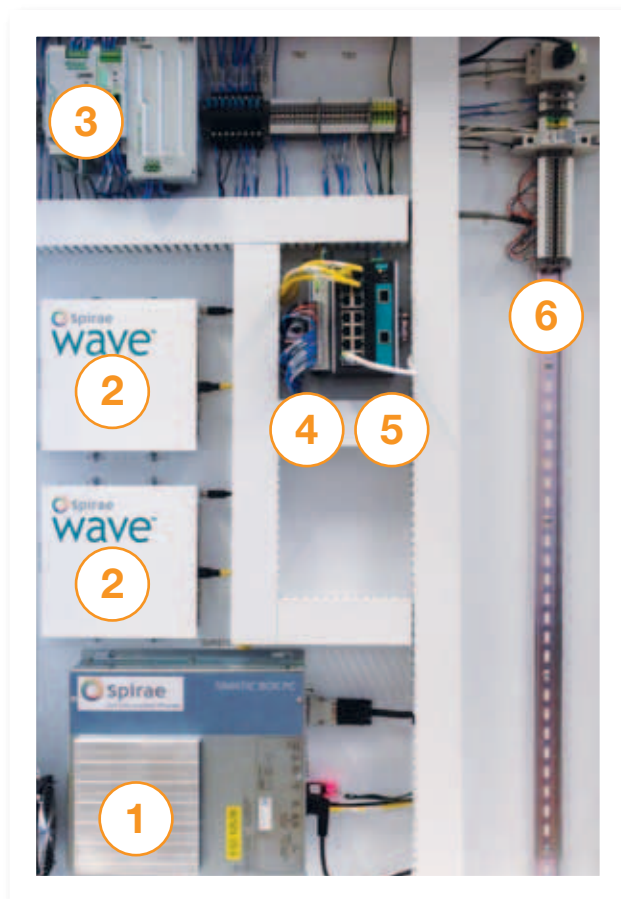
Environmental

Ambient temperature: 5 to 55° C

Relative humidity: 5% to 80% at 25° C
(no condensation)

Mechanical

Typical enclosure size 48" x 36" x 10"



Wave™ Client

Users access the Wave™ Commander with Wave™ Client software installed on remote workstations or laptops.

1. Wave™ Server

The Wave™ Server is a computer housed in a rugged metal enclosure, resistant to vibration and shock, with high electromagnetic compatibility. With a Xeon E3 processor, 1 TB (2X 1TB HDD SATA, Data Mirroring), 16 GB DDR3 SDRAM and Windows Server operating system. The Wave™ Server holds the central database.

2. Wave™ Control Units

A Wave™ Control Unit is a computer housed in a rugged metal enclosure, resistant to vibration and shock, with high electromagnetic compatibility. With a Core i7 processor, 80 GB Solid-state drive, 4 GB DDR3 SDRAM and Windows Embedded Standard 7 operating system.

3. Power Supply with UPS backup

The Spirae Wave™ Commander is provided with a Power Supply and UPS backup to ensure that reliable power is provided to the Wave™ Server and Wave™ Control Units.

4. Input/Output Modules

Input/Output Modules are supplied to provide and receive digital and analog signals to controllable assets.

5. Ethernet switch

An Ethernet switch is provided to facilitate communications between the Wave™ Server, Wave™ Control Units and external devices.

6. Expansion

I/O expansion slots and terminal strips.



North America:

Spirae LLC
243 N. College Ave
Fort Collins, CO 80524-2404
United States

Sales:

sales@spirae.com
+1 970 484 8259