

Louvreclad Intelligence



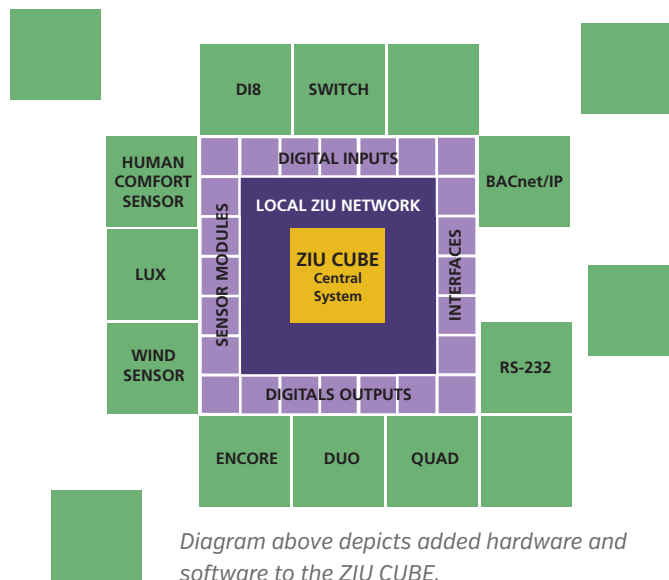
A unique Zone Intelligence Unit [CR® ZIU CUBE] which incorporates the sophisticated CR® ZIOS [Zone Intelligence Operation System] - powered by Enigma. A user centred zone control system offering intelligent comfort options.

Distinctive Features + Diverse Applications + Multitude of Benefits:

- Basic shading control with user override
- High performing shading control with sun tracking and facade performance
- Zone control including shading, cross ventilation, light, air conditioning etc.
- Zone comfort optimization using Human Comfort Sensor
- Building performance tuning.

Configurations:

- One layer - Local ZIU Network zone
- Local Cluster - Local ZIU Network zone and multi segment zones.
- Family - Independent of location with ZIU CUBE and CR Cloud connecting all zones in cluster.



Thinking outside for inside performance

Benefits:

- Open WiFi hardware platform supports adaptable software algorithms.
- Add on hardware connects to other WiFi control devices.
- Scalable three dimensional system
 - 1 Individual segments - add input, output, sensor, interfaces
 - 2 Local Cluster - incorporate all multiple ZIU CUBES to operate as one.
 - 3 Global Cluster - create global portfolio control network.
- Easy to add functionality.
- Future proof system
 - unlimited cluster additions
 - incorporate new skills and languages
 - global or portfolio network control via CR Cloud.
- WiFi connectivity means minimum installation requirements.
- Fast access to CR CUBE Control platform.

Installation Options

- New building.
- Retrofit.
- Refurbishment
- Zone optimization.

Components

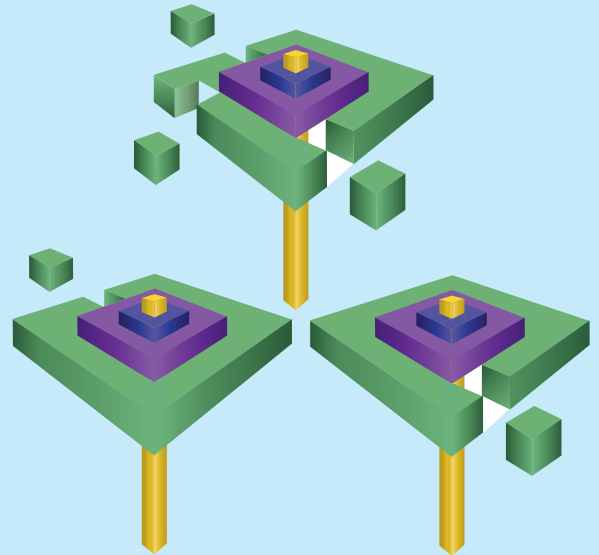
Hardware

- CR-CUBE - Segment Cluster Server.
- CR-CUBE + - CUBE+ 8 x DI / 8 x DO.
- DUO - 2 motor controllers.
- QUAD - 4 motor controllers.
- 8 DI - 8 channel dry contact input.
- 8 DO - 8 channel dry contact output.
- AI - Analogue Input 0-10 VDC.

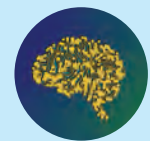
Software

- CR Zone Intelligence Operation System - ZIOS.
- Skills - BACnet
 - Sun Tracking
 - Facade performance
 - Over shadowing
 - Internal glare zones
 - Intelligence.
- Family - Cluster Service Operation International or portfolio wide.
- Talk - User Interface on smart phones, tablets, PCs etc.
 - Reporting tools.

ZONE INTELLIGENCE OPERATION SYSTEM



Isometric diagram above depicts the centred ZIU CUBE and tiered WiFi network updated with additional hardware and software when required. Connected Clusters create a Family, a global portfolio control network.



Climate Ready® Engineering Zone Intelligent Unit for user centred occupant and space management system powered by Enigma.