2023

GRYDSENSE VORTEX PROCESSOR

TECHNICAL SPECIFICATION

Revision History

Sl #	Change Description	Version	Date
1	Initial Draft	0.6	21st Oct, 2021
2	Added Compliance statements	1.0	22nd Dec, 2022

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Overview

Vortex processor is an Intelligent Lighting Management Processor which is pre-assembled and tested to control multiple load types. Supporting up to 32 GrydLight controller in a network.

Features

- Supports up to 32 GrydLight Controllers
    - 3000+ Lights per Vortex processor
- Scalable from a single area or floor; to a building or whole campus
- Secured communication with the cloud LMS
- Individually control, monitor and adjust any light in a space
- Supports BacNet IP, Modbus TCP protocols
- 3rd party integration with BacNet IP protocol
- Supports Ethernet and WiFi (Optional)
- Ruggedized Enclosure for maximum thermal performance

Models Available

GRYD-Vortex-4M – 4 GB RAM version

Specifications

Regulatory Approvals

CE, RoHS

Power

Input: 110–240 V~50/60 Hz

Mounting

Surface or recess-mount or Din-Rail.

Environment

Enclosure: Metal Casing with Heat Sink

- Mount where ambient temperature is 0 to 40 ºC.
- Relative humidity less than 90%, non-condensing.
- Passive cooling

Additional Features

- Ubuntu OS
- Intel Celeron Processor with 4 GB RAM 32 GB SSD
- BACnet IP with Modbus TCP
- Real Time Clock
- Configurable using Cloud Software
- Capable of up to 500 events
- 200 daily schedules and 30 holiday (special) schedules are available
- Holiday (special) events are programmable one year in advance
- Control and Monitor Space utilization, HVAC, Energy meter, Chillers, VAV, Lighting
- Uplink to Server using Ethernet or WiFi

System Diagram