view | Dynamic Glass

View Enterprise Server for large View Dynamic Glass applications

Tier 3 Master Controller

Description

View Dynamic Glass is a smart glass system that changes tint states based on environmental conditions. The system runs on a control system that requires a master controller that typically resides in the View Control Panel. The master controller runs the View Intelligence® software, manages remote maintenance and site monitoring, and connects all control panels on a given building. In installations with more than 250 zones (a zone is a group of windows that are controlled together), an enterprise data server is required.

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Specifications

Product	DELL Power Edge R530 or equal	
Dimensions	3.42"H X 26"D X 19"W	
Weight	62 LBS	
Power	100-240VAC, 50/60 Hz, 10A / 5A (x2) (750W AC Redundant Power Supplies) 55 Amp Inrush Max Dual, Hot Plug Redundant Power Supply, 750W (2) Power Cord, NEMA 5-15P to C13, 15 amp, 3M cord	
BTU	2891 BTU/hr per power supply	
Form Factor	2U rack server	
Processor	Intel® Xeon® processor E5-2600	
Memory	16GB	
Storage	Up to 8 x 3.5" SAS, SATA, nearline SAS,SSD drives	
RAID controllers	PERC H730	
Network controller	4 x 1GbE	
Power supplies	495W, 750W, 1100W hot-plug PSU; 450W cabled PSU	
Supported hypervisors	VMware vSphere ESXi™	
Rack support	ReadyRails™ II sliding rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded hole racks, with support for optional tool-less cable management arm.	
Temperature	Continuous operation (for altitude less than 950 m or 3117 ft)	10°C to 35°C (50°F to 95°F) with no direct sunlight on the equipment
Operating temperature de-rating	Up to 35°C (95°F)	Maximum temp. is reduced by 1°C/300 m (1°F/547 ft) above 950m (3,117 ft).
	35°C to 40°C (95°F to 104°)	Maximum temp. is reduced by 1°C/175 m (1°F/319 ft) above 950m (3,117 ft).
	40°C to 45°C (104°F to 113°F)	Maximum temp. is reduced by 1°C/125 m (1°F/228 ft) above 950m (3,117 ft).
Relative humidity	Operating	10% to 80% Relative Humidity with 29°C (84.2°F) maximum dew point
Maximum altitude	Operating	3048 m (10,000 ft)
Air filtration	Data center air filtration as defined by ISO Class 8 per ISO 14644-1 with a 95% upper confidence limit.	

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Enterprise Server – Rack Mount - Front
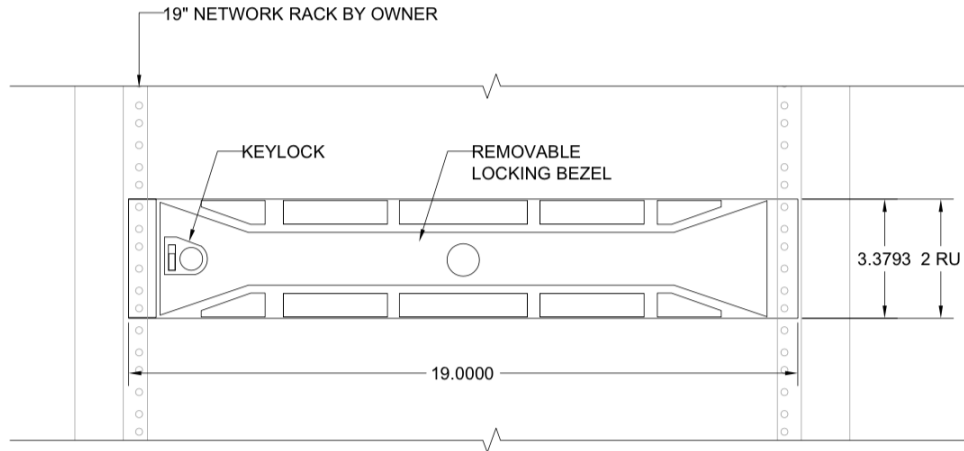
Enterprise Server – Rack Mount – Rear

DELL R530 Rear Backplane
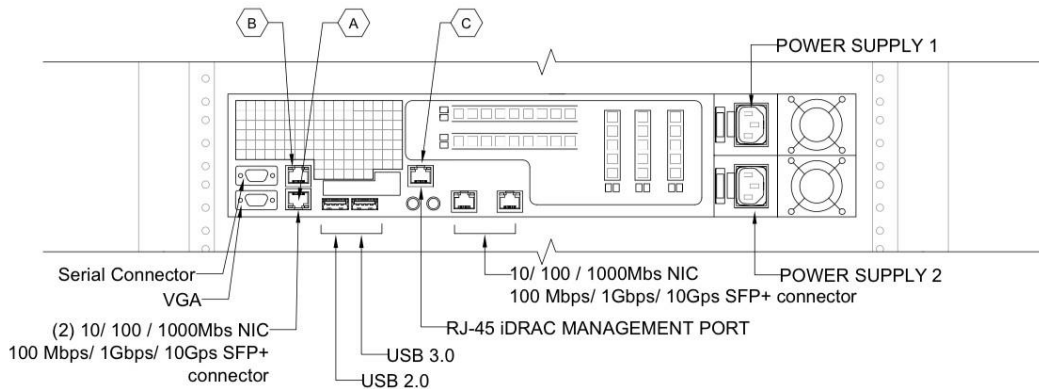
Owner I.T. to provide:

(3) RJ-45 Ethernet Drops
- A. (1) To View LAN for View Control Panels
- B. (1) To WWW
  - (2) IP addresses required
    - NIC1 - View assigned
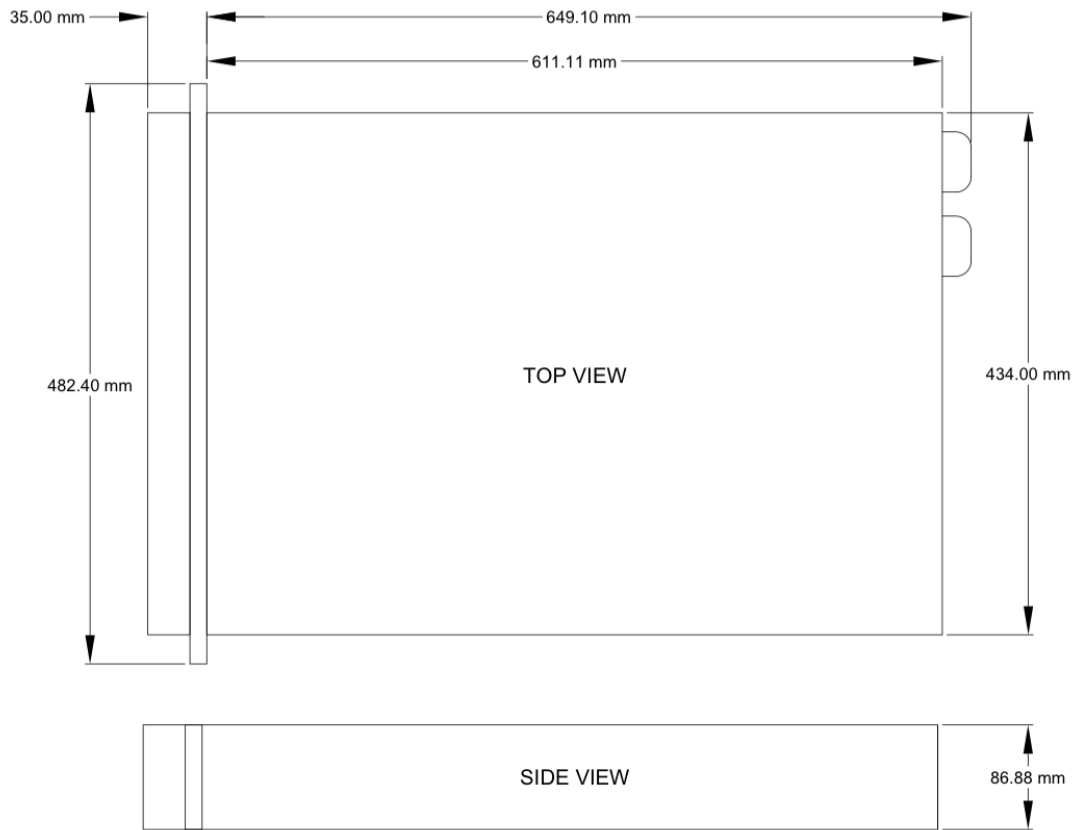   - NIC0 - CUSTOMER ASSIGNED
- C. (1) iDRAC Management Port

(4) C. to provide:

(2) NEMA 5-15R receptacles on separate 120VAC, 60Hz, 20 AMP CKTS
Critical power preferred

Included:

Readyrail 2RU sliding rack rail kit (required for installation)
Cable management arm

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Enterprise Server – Rack Mount – Dimensions

Environmental cleanliness:

Data centers must be kept clean to ISO 14644-1 Class 8. This level of cleanliness can generally be achieved by an appropriate filtration scheme as outlined here:

1. The room air may be continuously filtered with MER. V 8 filters (G4/F5, 2.5 – 3.0% dust spot.)
2. Air entering a data center may be filtered with MERV 11 (F6, 60-65% dust spot) or MERV 13 (F7, 80-90% dust spot filters)

Sources of dust inside data centers should be reduced. Every effort should be made to filter out dust that has deliquescent relative humidity greater than the maximum allowable relative humidity in the data center.

Gaseous contamination should be within the ISA-71.04.2013 severity level of G1-Mild that meets:
1. A copper reactivity rate of less than 300 A per month **and**
2. A silver reactivity rate of less than 200 A per month.

For data centers with higher gaseous contamination levels, gas-phase filtration of the inlet air and the air in the data center is highly recommended.