

# Cisco

# VS

# Vigtron

## A Key Feature Comparison of Cisco C2960 PS-L 24 Port PoE Network Switch to Vigtron Vi3026

Feature	Cisco 2960	Vigtron Vi3026	Vigtron Advantage
No. of Total Ports:	24	26	Vigtron provide 26 ports with two ports reserved for up/down links. This provides users with use of all 24 ports for device connections. Cisco only has 24 ports which means when two are used for up/down links only 22 remain for device connections.
No. of Fiber Uplink Ports:	4	6	Vigtron provides two additional fiber connections with are independent from copper (Ethernet Port) connections. This provides users with ability to use 2 fiber connections without giving up any Ethernet connections.
Total power at load:	466 watts	525 watts	Vigtron's higher power supply provides more operating power to the switch and a greater degree of separation between power required for switch operation and PoE resulting in greater reliability.
PoE Budget:	370 watts	370 watts	same
No. of ports @ 15.4 watts (802.3f)	24	24	same
No. of ports @ 30 watts (802.3at)	12	12	same
Ability to handle device power surges	NO	YES	Vigtron has the ability to provide extra power required to handle surge power without shutting down PoE port es - Cisco does not and once PoE power is shut down there is no method to restart leaving the device in the off position.
Ability to program PoE	NO	YES	If many devices surge on PoE start up can damage the switch's power supply resulting in damage. Vigtron switches can be programmed to start individually port programmed to start PoE over a 5 minute period preventing this. Cisco does not offer this safety feature.
Stacking	Optional fixed position	Standard Network based	Stacking is an optional extra cost feature with Cisco, it is standard with Vigtron. Cisco's stacking requires all switches to be in the same location increasing installation costs. Vigtron switches can be placed anywhere in the network.
No. of switches/ports	16/352	36/864	Vigtron offers 112% more switches that can be stacked and 245% more ports that can be controlled and access over a single IP address than Cisco- this can be a great cost savings in large scale installation such as access control.
Forwarding bandwidth-Switch fabric	50Gbps	56Gbps	Higher bandwidth assure more stable transmission when all ports are used at their higher bandwidth levels.
Forwarding bandwidth-Switch fabric- test size	64 bytes	9600 bytes	Vigtron switches are designed and tested under bandwidth conditions required for the highest video transmission. A 1.3MP still requires at least a packet size of 1024 byte- Cisco switches are tested at 64bytes the lowest packet size having no relation to video.
Jumbo frame @ 100Mbps	NO	YES	All IP Cameras and most network security devices transmit at 100Mbps and require at switch bandwidth port setting of 100Mbps. At this speed Cisco switches cannot operate at packet sizes above 1518 bytes (approx.). Using a setting of 1G which is required by Cisco to achieve jumbo frames can result in asynchronous operation and packet loss.
Jumbo Frame Programmability	NO	YES	Vigtron switches have the ability to set any packet size at any speed providing the best use of internal transmission based on the input device.
Layer	2	2+	Cisco is only Layer 2. Vigtron is Layer 2 plus, in addition Vigtron's virtual stacking feature provides Layer 3 like features by providing for switches operating on different subnets to be accessed by a single IP address at the same time of not requiring routing which can open up your network to outside hacking. In addition multiple VLANs can be created between ports operating on different switches.
Ability to manage different subnets	NO	YES	Vigtron can provide this Layer 3 like function which will allow for operating different subnets using Virtual stacking- Cisco does not offer this.
Ability to create VLAN between different switches in the same network	NO	YES	Different functions may exist on different switches. Cameras and IP access control monitoring warehouses at different locations connected to different switches. Vigtron switches can group these into a single VLAN providing easy and separate monitoring and recording even when these inputs exist on different switches.
Individual Port auto checking - ability to establish lost port communication	NO	YES	On start up every switch will monitor their port connection and application of PoE to that port. If a connected device is not sensed or the amount of PoE power requested exceeds the amount available at the port, the PoE supply will shut down. The problem is there is no ability to restart and the device connected to the port remains off. Vigtron's switches will make at least three attempts reducing the potential for service calls.
Ability to program the connected devices IP to the switch port	NO	YES	With Cisco switches, the server or device recording or monitoring the signal passes through the switch to the individual connected device. You don't have any idea of the connection status from the switch to the individual device connected to the port. Vigtron switch allow you to program the IP addresses of devices connected directly to the their associated ports providing the ability to monitor the connected status and reconnect if communications are dropped for any reason.
Ability to recheck ports and reconnect	NO	YES	With Cisco switches, you cannot tell if a connection is lost or the health of the connection. Vigtron switches allow you to set up a automatic ping of devices connected individually to each port and report its status taking action to reconnect if needed. User settings range from 10 to 120 seconds (2 minutes).
Ability to reconnect switch port to devices if connect fails during normal operation	NO	YES	If the attempt by the Vigtron switch fails to receive an acknowledgement from the device connected to the port, it can retry up to 5 times based on user settings - avoiding costly service calls and device down time.
Ability to automatically reboot connected device	NO	YES	If a PoE powered device is connected to a switch port loses power, even if the connect can be re-established it may not necessarily mean PoE can be reapplied as the physical connection is between the switch port and device is still present. Vigtron switches can be user programmed to apply a reboot. Further as different devices will have different durations in applying power and "waking up" a user setting of between 3-120 seconds can be used to match the connected device and avoid a false reading disabling the device.
Notification of attempted connection failures and reconnect	NO	YES	Vigtron switches provide a single screen easy showing the source of bandwidth and PoE problems. In addition a separate screen showing the number of attempts to reconnect and apply PoE is provided and set to both the Sys Log and SNMP.
Notification of failure to activate Device PD	NO	YES	Within the PoE status screen an indication to let you know if the camera PD was sense and is active. This is a key factor in determining where your problem exists and preventing the potential of returning a perfectly working camera for service when the problem exists else where in your system.
Single screen status of individual port bandwidth transmission status	NO	YES	Vigtron switches provide a single screen status of the bandwidth conditions of each port. If you have having video quality issues you can easily determine the nature of the problem and make programming corrections.
Single screen status of individual port PoE status with notification of required PoE Class	NO	YES	Vigtron switches show you the PoE per port power you have requested and provide an acknowledgement from the switch the power is available while showing the actual power required by the connected device and indicating by Class if a higher setting is required. This takes the guess work out of determining the actual power required due to surges and cabling power consumption.
Ease of GUI operation - set up	Difficult	Easy	That have been told by many users that Vigtron switches are significantly easier to set up and operate than Cisco switches. GUI is layout in a logical manner allow you to directly access only the function you need to program or monitor.
Warranty	Life time production -support for 5 years. However in cases where the product is sold by a Cisco reseller warranty automatically starts in 90 days	Production Life Time Plus 3 years	Vigtron's complete warranty is applied in the same manner to both authorized dealers and end-users with no time restriction such as the 90 days requirement by Cisco. This means dealers do not lose any valuable time if their projects are delayed. Vigtron sells via authorized distributors and will honor the warranty even when the distributor sells to their dealer to the dealer's customer.
Distribution cost - New Product	Call for pricing		Pricing for Cisco is an average calculated cost taken from Internet pricing and applied with the very discount Cisco gives to resellers. Vigtron sales channels enjoys full selling at a lowest selling price that is at least 27.5% less than Cisco.

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