

CNSIQ600 Gigabit Smart Ethernet Switch

Features



- ◆ Network millisecond recovery time
- ◆ 2 Gbps throughput
- ◆ Redundant network
- ◆ True Plug and Go Operation
- ◆ Optional Plug and Go Multicasting
- ◆ Optional Power over Ethernet (PoE)
- ◆ Superior Return on Investment (RoI)

Description

The IQ600 Smart Switch is designed for *low-cost, high reliability* and *low port density* deployments positioning it as the ideal platform for a broad range of IT applications addressing the requirements for a variety of vertical markets.

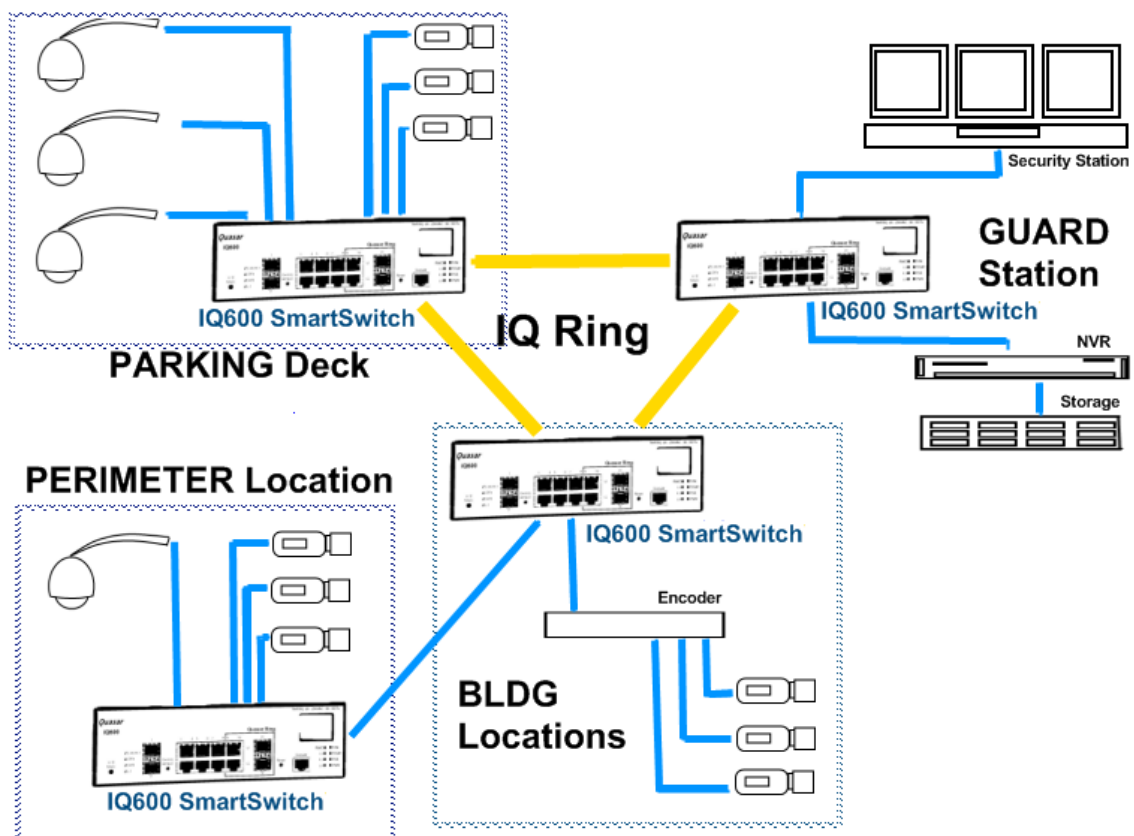
IQ Smart Switches are more powerful than other Ethernet Switches:

- ◆ Ultra-reliable Self-Healing backbone eliminating network overlay links
- ◆ Exceptional PoE delivery with a full 15.4W on every port
- ◆ Breakthrough Plug"n"Go Multicasting Technology

The IQ600 Smart Switch with GigE RJ-45 Copper IQ Ring and 6 Ethernet Access Ports has several unique features that make this platform ideal for most IT networks.

Redundant Self-Healing GigE IQ Ring™

Redundant Self-Healing GigE IQ Ring™_Quasar Technologies fault tolerant, self-recovering IQ Ring network virtually eliminates down time. It is an RJ-45 copper, full duplex solution for easy, cost effective transport. A single IQ Ring can support hundreds of attached devices.



IQ Ring Example applied to a Security Network: All IP based devices plug into the Gigabit Ethernet IQ Ring. IP devices can be managed locally and remotely over IP networks.

Plug-n-Go Installation

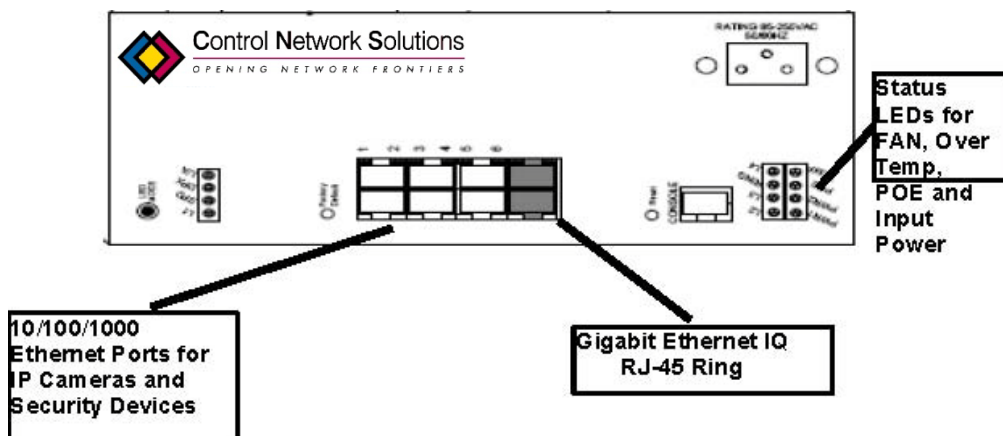
Plug-n-Go Installation_IQ600 Smart Switches are extremely easy to set up:

1. Plug-in the RJ-45 backbone cable, Ethernet RJ-45 Cat5e/Cat6 cables
2. Power on the IQ600
3. The IQ600 auto provisions all networking configurations
4. The entire ring and all devices are up and running.

Lowest Total Cost Gigabit Solution

Lowest Total Cost Gigabit Solution_The innovative IQ600 Smart Switch provides savings in many areas – faster installation, no administration, self-healing resilient ring architecture means low maintenance, easy network expansion, and flexible scalability.

CNSIQ600 Interfaces



Scalability

IQ600 Smart Switch provides unlimited scalability in a redundant ring network as opposed to traditional Ethernet network switches. The IQ600 utilises unique firmware and self-management techniques to overcome the limitations placed on Managed Ethernet networks. As many nodes as required can be added to an IQ Ring without the difficulties of reconfiguring the network experienced with Managed Ethernet switches. The data from IP-based devices is routed around the IQ Ring with extremely low latency to the Gigabit Ethernet port attached to the IP-based devices requesting the data such as servers, monitors, and/or recorders.

Optional PoE and Plug-n-Go Multicasting

The IQ600 Smart Switch also has the option to provide a full 15.4W on each and every access port without any power loss given PoE demand by every port.

Note: *Additionally, Quasar Technologies patent pending Plug"n"Go Multicasting is available as an option. In this mode, no planning, setup or configuration is required to implement a multicast environment on our network. Simply plug in your IP-based devices, Quasar Smart Switches take care of the rest. Devices that require the multicasting traffic, such as terminals or NVRs, will need to connect at a Gigabit rate.*

For more information on implementing Self-managed IP- based Ethernet networks please refer to the associated discussion document on our web site, details at the end of this data sheet.

Multi-Vendor Compatibility

The CNSIQ600 is compatible with all IP-based Ethernet Switches and Routers. When connected to other vendors' equipment in a typical Star/Tree topology, the CNSIQ600 looks like any other standard switch and is interoperable with Spanning Tree Protocol. The Intelligent Quasar technology does not effect the operation of the non-IQ elements as the other network elements do not utilise the IQ Ring functionality. It is possible that customers will have an IQ Ring network of IQ Switches that attaches to a non-self-healing, non-self-managing IP based network. The Intelligent Quasar technology enhances the network reliability for mission critical applications.

Specifications

Electrical Specifications (all values at ambient temperature)	
Operating Temperature	-40 to 80 C
Input Voltage	90 -240 VAC Universal
Power Consumption	100 Watts nominal, 275 Watts max with POE enabled
Environmental Specifications	
Humidity	95% non-condensing
Ethernet Specifications	
IQ Ring	Copper Gigabit, RJ-45, 100m distance maximum
Ethernet Connections	6 ports RJ-45 Cat5e/Cat6 10/100/1000Mbps Auto sensing
Optional Power Over Ethernet on 6 Service Ports	15.4 Watts max per port.

Mechanical Specifications	
Dimensions	12.0W x 5.0H x 8.0D inches (30.5 x 12.75 x 20.75 cm)
Weight	4.0 pounds (1.82Kgs)
Mounting Options	Standalone, DIN, or 19" rack mountable
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x. IEE802.af
Certifications	UL, CE, FCC Part 15

Ordering Information

Part No	Description
	IQ600- Smart Switch (Copper backbone only) - 2 x 1Gb backbone Ports + 6 x 10/100/1000 RJ-45 ports
CNSIQ600-0C000	IQ600 Switch - Copper backbone
CNSIQ600-EC000	IQ600 Switch - Copper backbone + PoE (6 Ports)
CNSIQ600-0C0Y0	IQ600 Switch - Copper backbone + Multicast (6 Ports)
CNSIQ600-EC0Y0	IQ600 Switch - Copper backbone + PoE and Multicast (6 Ports)

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eNode™ is the brand name and trade mark of CNS's IP hardware products and forms part of its family of IP Network Infrastructure Products (INIP's) for control networks. Quasar, IQ Switch, IQ100 are the trade marks of Quasar Technologies.

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