

JumboSwitch[®] News

JumboSwitch is Efficient Smart Grid Communications Solution



The JumboSwitch is an efficient next-generation Smart Grid Ethernet/IP backbone solution for Utility network applications.

Fast, reliable and secure, it provides a sophisticated network management system and supports the intelligent communication technology and diverse network architectures necessary to meet Smart Grid requirements.

Lower Cost Alternative to SONET/SDH

Traditionally, SONET/SDH has been the technology of choice for communication backbone networks, including Smart Grids. However, Ethernet-based backbone networks such as the JumboSwitch are rapidly replacing

costly SONET/SDH solutions. Why? The short answer is lower cost and modern IP/Ethernet backbones like the JumboSwitch reliably address critical issues such as bandwidth optimization, QoS, security. The JumboSwitch also offers TCView, a sophisticated centralized network management system.



Hot-Swappable, Self-Configuring Cards for SCADA/Utility Networks

Analog & Dry Contact

The low latency Analog & Dry Contact interface card extends 600Ω Analog connections & dry contacts across Layer 2/3 Ethernet/IP networks. Applications include linking analog, audio & intercom devices, (e.g. FSK modems), E&M, teleprotection relay controllers & dry contacts over Layer 2/3 IP networks.



TC3846-6

G.703

The G.703 interface card features latency of less than 5 msec. Applications include extending Power Utility Teleprotection relays with G.703/64K interfaces over Layer 2/3 Ethernet/IP networks.



TC3846-1

Ultra fast Serial Server

About 4 times faster than a standard serial over Ethernet/IP converter, the "Turbo" Interface Card exceeds protective relay communications requirements & performs at less than 3 msec. latency, end-to-end, through a Layer 2/3 Ethernet/IP networks.



TC3847-3

C37.94

The C37.94 interface card supports direct fiber optic communications links between teleprotection & multiplexer devices in Power Utilities.



TC3846-2

Get Your Free JumboSwitch Hats & Tote Bags

Come by Booth #625 to pick up your free JumboSwitch Baseball Hat and Tote Bag (while supplies last).



JumboSwitch[®] News

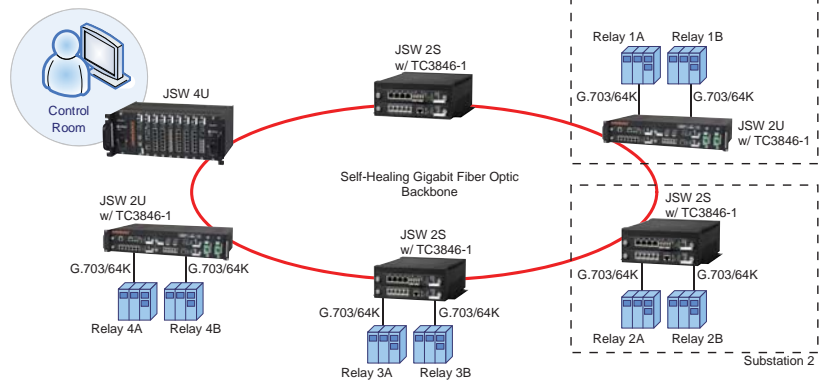
JumboSwitch Benefits SCADA & Utility IP/Ethernet Backbone Networks



The JumboSwitch is an ideal optical networking solution for transporting T1, E1 Telephone, Serial and Ethernet in Power Utilities, Substations, Hydro and Water Treatment Plants. Applications such as SCADA, Teleprotection, Substation Automation and IP Security can take full advantage of the entire JumboSwitch GigE platform.

Benefits include:

- Gig Ethernet/IP Backbone
- Bridges IP, VoIP & TDMoIP
- Alternative to SONET/SDH
- SNMP Network Management
- IEC61850-3
- NERC-CIP



Typical JumboSwitch platform application.

JumboSwitch Voice Solutions

The JumboSwitch supports three important Voice and TDM-over-IP applications to implement and integrate voice over a Gigabit Ethernet network:

- Connects PBX ports to remote analog phones
- Replaces PBX's by using a distributed, hardened and full-featured virtual PBX
- Links or extends T1/E1 circuits



TCView Packs Powerful Punch for Network Management

TCView is a robust SNMP based network management system that simplifies configuring, monitoring, administrating, troubleshooting & servicing JumboSwitch networks & other TC networking devices.

TCview[™]

