Engage Communication

Lan•Gov

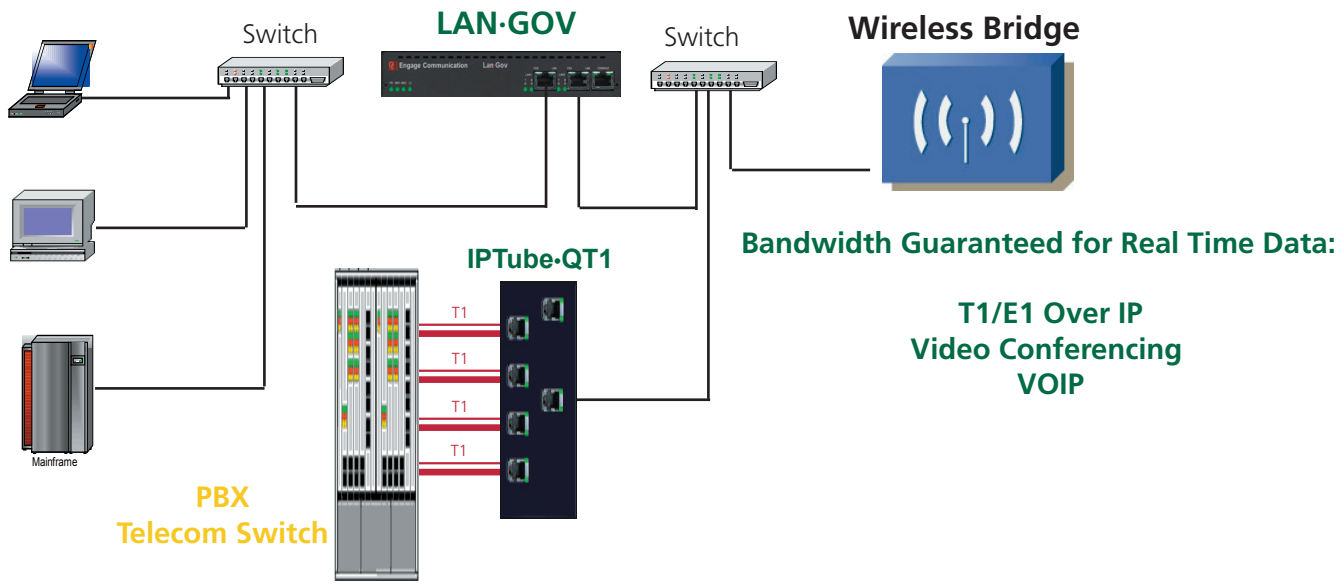
• LAN to LAN Interconnect with Data Rate Governor •

The **LAN·GOV** is used to interconnect Ethernet LANs through a data rate governor. The data rate governor utilizes Time Division Multiplexing based clocking to provide for Nx64, NxT1 and NxE1 bandwidth regulation that is configured from 64 kilobits up to DS3.

Governing the WAN bandwidth utilized by an Ethernet LAN enables the reservation of WAN bandwidth for time sensitive real time connections such as those required by Video Conferencing, Voice Over IP and T1/E1 Over IP applications.

Rate Governing is applied in one direction to minimize latency. The traffic from the non real time LAN is data rate limited. The traffic from the WAN is bridged to the non real time LAN without passing through the data rate limiter.

The **LAN·GOV** isolates the real time critical application data from traffic overloading which can cause process saturation. The traffic that is forwarded is limited to only the traffic that is destined for the remote location by a standards based spanning tree bridging protocol.



Wireless Ethernet

Wireless Ethernet bridges typically do not implement a method to ensure that the real time connections have priority. The **LAN·GOV** provides a straight forward method to ensure real time data delivery across wireless links.

Wide Area Networks

Enterprises, Education, Government Agencies and Organizations are able to deploy **LAN·GOVs** to restrict network segments utilization of Wide Area Network Bandwidth.

Service Providers

Unrestricted Ethernet connections provided by networking service providers enable subscribers to over-burden the Service Providers network. The **LAN·GOV** enables service providers to limit a subscriber to a committed information rate.

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Governing Data Rate Versus Quality of Service

Quality of Service

Quality of service in complex networks is cumbersome. QOS needs to be performed at each transitions from high to lower bandwidth in the packet path. Access to routers or switches in the link that are maintained by different organizations can be restricted.

Date Rate Governing

Governing general traffic bandwidth is straight forward and easy to implement. Data rate configuration is setup at each end of the link to guarantee the real time data rate requirements.

Transparent Interconnect

The **LAN·GOV** transparently monitors all the packet traffic on each of its LAN segments to determine whether the packets it receives are to be forwarded. The Ethernet MAC layer source addresses that are active on each LAN are stored in a filtering database. Packets with a MAC destination that do not match a MAC address entry for the receiving port are forwarded.

Ease of Installation

To be operational the **LAN·GOV** requires the configuration of the data rate. Configuration is performed through a Command Line Interface that is accessed through a console port or with Telnet.

Technical Specifications

LAN Network Interface:
- 10/100 BaseT Ethernet Port
- Auto-negotiate or Configured Speed/Duplex

LAN Network Protocols Supported:
- IP, TCP, ICMP

TFTP Online Upgrade Capable
- Fully operational during upgrade

Management:
- Telnet with Edit and Paste Templates
- Console Port for Out of Band Management
- SNMP support (MIB I, MIB II)
- Remote configuration, monitoring, & reset

Regulatory:
- Safety -IEC60950
- EMC - CFR 47 Part 15 Sub Part B:2002
- CE

Power:
- 12-24 VDC 1.0A
- International Adapter
- Optional -48V 0.25 Amp

Dimensions:
- 9" (L) x 7" (W) x 1.50" (H)

How to Order — Lan•Gov

Part No.	Description	Notes
040-1045	LAN•Gov	
Power Options		Specify as suffix
-DCMOD	Power Supply Module 12/26 VDC ADP CON	Ships with Universal Adapter 90/240 50/60
-WIREDC	Power Supply Module 12/26 VDC Screw Term	
-N48VDC	Power Supply Module Negative 48 Volt DC	Isolated Negative 48 Volt Power
	Hot Standy Configuration	Specify an additional Power Module Suffix
Rack Mount Option		Specify as suffix
-RACKMNT	19" Wide Rack Mount Brackets	Enclosure Nut Serts Installed

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