

## BHUMIKA APPLICATION NOTE

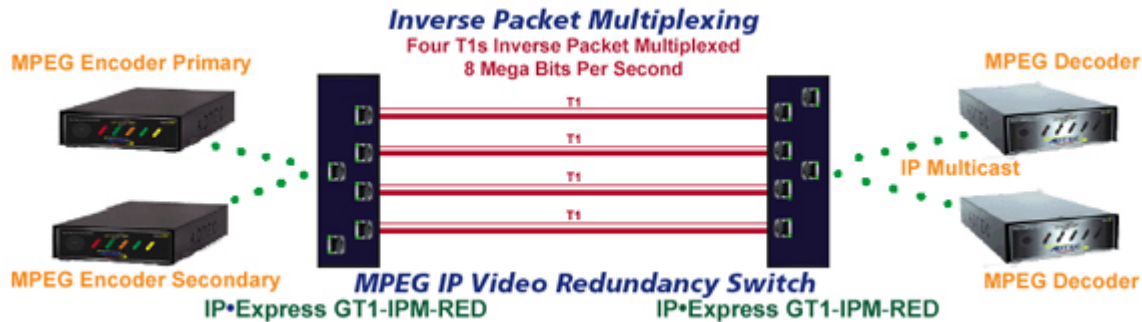
### Video over WAN - MPEG over T1 or E1 Wide Area Network (WAN)

Bhumika International Inc offers high performance Wide Area T1/E1 solutions that are primarily employed to deliver MPEG 2 and 4 IP Streaming Video over Single or Inverse Packet Multiplexed T1/E1s.

IP Multicast is a standard feature of the IP•Express family and is utilized to distribute MPEG video simultaneously to multiple decoders.

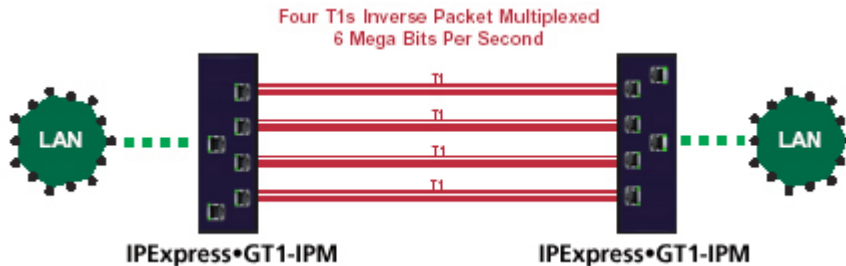
### MPEG IP Video Redundancy Switch

REDundant IP Video configuration automatically switches from the Primary to a Secondary Encoder's IP Video Stream for mission critical broadcasts and is available with the IP•Express GT1-IPM-RED. A one second absence of IP packets from the Primary Encoder results in the switch to the Secondary Encoder. The WAN bandwidth is reserved for a single feed.



### Four T1 Inverse Packet Multiplexer

**Inverse Packet Multiplexing** is an option of the IP•Express GT1. IPM delivers 3 to 6 Megabits of interconnectivity over 2,3,4 Dedicated T1 WANs. IETF approved RFC1990 Multilink PPP protocol bonds multiple T1s into a high-speed link that has built-in redundancy. T1 line fault detection provides resilient connectivity for Mission Critical Interconnects.



### MPEG IP Multicast Streaming Video

IP Multicast is a standard feature of the IP•Express and is utilized to distribute MPEG video simultaneously to multiple decoders.

## BHUMIKA APPLICATION NOTE

### Inverse Packet Multiplexer

The **Inverse Packet Multiplexer** provides the bandwidth necessary for the delivery of 2 broadcast quality video feeds or to deliver near Contribution quality for a single MPEG Video.

IPM delivers 3 to 6 Megabits of interconnectivity over 2,3,4 Dedicated T1 WANs.  
IPM delivers 4 to 8 Megabits of interconnectivity over 2,3,4 Dedicated E1 WANs.

### Models

**IP•Express DLT1** is a high performance, bandwidth scalable, **IP WAN Router** or **Bridge** with **1-2 T1** ports

**IP•Express GT1** is a high performance, bandwidth scalable, **IP WAN Router** or **Bridge** with **1-4 T1** ports

**IP•Express DLE1** is a high performance, bandwidth scalable, **IP WAN Router** or **Bridge** with **1-2 E1** ports

**IP•Express GE1** is a high performance, bandwidth scalable, **IP WAN Router** or **Bridge** with **1-4 E1** ports



To get more information about this solution or to obtain a Data Sheet, Technical Specifications and a Quotation, Please contact Bhumika International Inc. at [info@bhumika.ca](mailto:info@bhumika.ca) or at +1 416 930-2931