

High Capacity Stream Replicator/Modifier



Replicate/Modify Live Streams

- Line Rate 1G, 10G
- Up to 48 input streams
- 1 to 4048 output streams
- Sequential or Non-Sequential IP Addresses
- Maintain characteristics of original streams
- Replicate IPv4 streams
- Replicate live video streams
 - SD/HD
 - Multicast / Unicast
 - MPEG2-TS
 - Non-Encrypted or Encrypted
 - SPTS/MPTS
- Replicate Audio, VoIP or Data Streams
- Modify Src IP Addr, Dest IP Addr, Src Port, Dest Port, VLAN, Src MAC, Dest MAC, DSCP
- Impair streams with Drop, Bit Error Rate, and Throttle.
- Recalculate Frame, IP Header, UDP/TCP Checksums

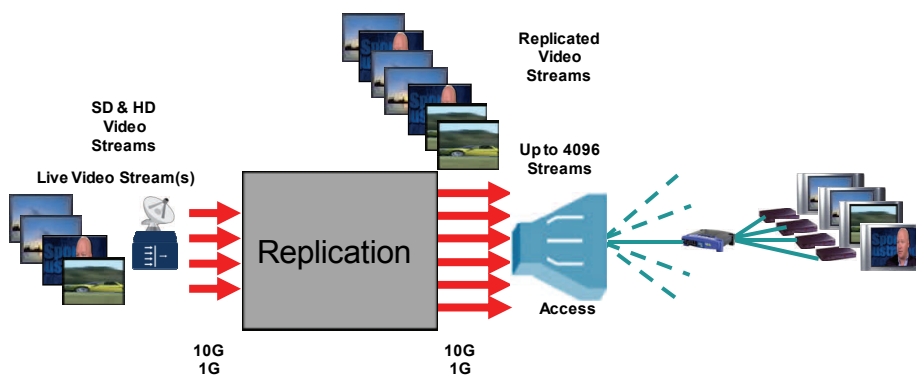
Applications

- Emulate large video farm using a small number of live streams
- Use in live network to modify video stream addresses
- Stress Test QAM Gateways
- Stress Test DSLAMs

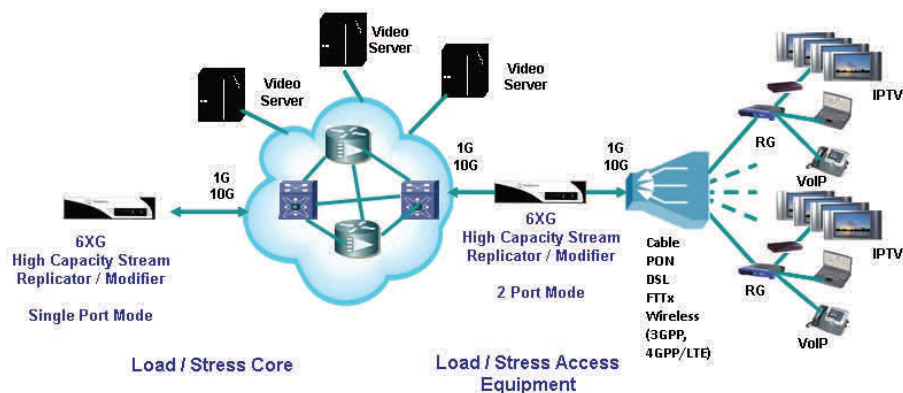
Features

- VLAN and Q in Q support
- DSCP support
- Automatic Multicast MAC Address Calculation
- Pass only replicated traffic or all traffic
- IGMP v1, v2, v3, & over VLAN Join/Queries support for Input Streams
- Insert & Delete Streams On-the-Fly
- Easy to use Spreadsheet / Tabular Input configurator
- Bidirectional replication
- Two Port Mode

The PacketStorm 6XG IP High Capacity Stream Replicator/Modifier allows the user to input up to 48 IPv4 Streams and output up to 4000 replicates with modified fields such as IP addresses and port numbers over 1G and 10G interfaces.



Replicate/Modify Live Video Streams



Use as Part Network or In-Line with Device Under Test (DUT)

User Interface

- Easy to use Spreadsheet / Tabular Configuration
- Easy to use Editor Functions: Create, Copy, Change, Remove
- Filter on Stream IP header information
- Modify Stream IP header information
- Impair Streams
- Auto Calculate Multicast MAC Address
- Physical Port Status Lights
- Stream Search
- Status / Warning Indicators
- Define input streams
- Turn Streams/Replicates on and off
- Sequential or Non-Sequential Addressing
 - User defined addresses
 - Randomly increment addresses
- Option to pass only replicated traffic

The screenshot displays the PacketStorm6XG Replicator interface. At the top, there are tabs for 'Streams', 'System', and 'Statistics'. The 'Streams' tab is active, showing configuration fields for a stream and its replicates. The 'Stream' section includes fields for Direction (A to B), Dst MAC, Src MAC, VLAN Tags, VLAN ID1, VLAN ID2, Src IP, Dst IP, Src Port, Dst Port, and IGMP. The 'Replicate' section includes fields for Direction (A to B), Dst MAC, Src MAC, VLAN ID1, Src IP, Dst IP, Src Port, Dst Port, DSCP, and Auto-calc. The 'Impairments' section includes fields for Drop(%), Bit Error Rate (BER), and Modify (Payload). The 'Increment By' section includes checkboxes for incrementing various fields like Src IP Octet, Src Port, VLAN ID1, Src MAC, Dst IP Octet, Dst Port, VLAN ID2, Dst MAC, DSCP, and VLAN Src IP Octet. The 'Output' section includes radio buttons for Stream & Replicates and Replicates Only. The 'Totals (Calculated)' section shows Streams (10), Replicates (1500), and Mbps (4690.32). Below the configuration fields is a table with columns for Type (#Reps), On, Dir, Drop%, BER, Dst MAC, Src MAC, Src IP, Dst IP, Src Port, Dst Port, DSCP, IGMP, VLAN Src IP, Frame, and Rate. The table shows two streams and their corresponding replicates. At the bottom, there are status indicators and buttons for 'Select All', 'Delete All', and 'Delete Selected'.

Type (#Reps)	On	Dir	Drop%	BER	Dst MAC	Src MAC	Src IP	Dst IP	Src Port	Dst Port	DSCP	IGMP	VLAN Src IP	Frame	Rate
Stream (150)	✓	A to B	0	0				224.1.1.1				On		1384	3.1
Stream (150)	✓	A to B	0	0				224.1.1.2				On		1384	3.1
Replicate	✓	A to B	0	0	01:00:5E:02:01:01			226.2.1.1							
Replicate	✓	A to B	0	0	01:00:5E:02:01:02			226.2.1.2							
Replicate	✓	A to B	0	0	01:00:5E:02:01:03			226.2.1.3							
Replicate	✓	A to B	0	0	01:00:5E:02:01:04			226.2.1.4							

Streams User Interface

6XG Chassis

- Dimensions: 5 X 19 X 15 inches
- Weight: 30 lbs
- Remote Interface: 10/100/1000
- Power:
 - Voltage: 115-240VAC
 - Frequency: 50/60 HZ
 - 400 Watts (Maximum)
- Operating Environment :
 - Temperature 0 to 70C
 - Humidity 10% to 90%, non-condensing



Ordering Information

PacketStorm6XG-10R 10 Gigabit Stream Replicator / Modifier (Two Ports)

Options:

XG-602	Add (2) 10 Gigabit Ethernet Ports
XG-606	Add 1 Gigabit Ethernet Mode
XG-680	Replicator Impairments
PSC-1YR	One additional year warranty & maintenance, support
PSC-2YR	Two additional year warranty & maintenance, support

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