DVP1000 - Digital Video Protection
Protector Sentinel

Main Benefits
- Significantly cuts costs by turning the Internet into a true live content delivery network (LCDN)
- Live high quality video (SD, HD, and above) over standard Internet connections
- Low delay ensures viewers enjoy the excitement of live events as they happen
- Leverages the Internet to open new markets otherwise out of reach

Main Features
- Recovers 100% of lost packets
- Eliminates excessive jitter
- Multicast over protected tunnel across the Internet
- 1+1 Transport Stream protection
- Multi-path / Multi-ISP streaming
- Real time ETR290 probe
- Alarms
- Field upgradable

VideoFlow’s DVP1000 Protector and Sentinel broaden the delivery of quality video (SD, HD and above) over standard Internet connections

The Internet was never designed to handle Live video broadcast as they are sent as a continuous bit stream, which results in artifacts caused by jitter, and packet loss. Latency of more than a couple of seconds is totally unacceptable by viewers expecting to enjoy the excitement of any live event as it happens.

VideoFlow’s patent pending technology ensures that when delivering content over the internet no packet is lost, and nullifies the jitter caused by transiting the Internet thereby affording the opportunity to use a highly advanced, low cost solution for live, high quality video streams in place of existing, expensive solutions.

The DVP1000 series includes VideoFlow’s 3V technology enabling a point of convergence serving as video aware network gateway. The DVP1000 does not require any external box or service making it perfect for easy and scalable deployment of live video delivery over the Internet. Furthermore, the DVP1000 series is a proven robust, flexible, and cost effective solution to carry live high quality video over long distances, easily competing with satellite and legacy transport networks.
Specifications

MPEG over IP

Interfaces:
3 x 10/100/1000 Base-Tx, RJ-45

Capacity:
Max bit rate: 800Mbps
Max number of streams: 200

Format:
MPEG-2 / H.264 / H.265
SD, HD, UHD and above

MPEG TS Encapsulation:
SPTS, MPTS
UDP, RTP/UDP
Multicast/Unicast

TS Protection:
VFEC - VideoFlow Error Correction
VFAB - VideoFlow Advanced Buffer
Dynamic protection optimizer

TS Protocol Conversion / Remapping:
UDP to RTP
RTP to UDP
DST/SRC IP address remapping
UDP DST port number remapping

Supplemental TS I/O:
Add-on Inputs (with conversion/remapping)
Add-on Outputs (with conversion/remapping)

TS Analysis and Statistics

PID information
CC information
PMT information
PAT information
PCR bit rate information
ETR 290 Priority 1, 2, 3 Compliant Statistics
Packet rate
Processed packets
Unrecovered packets

Network

VPN Tunneling:
GRE tunnel over public internet
IPsec over public internet
Max number of tunnels: 200

Advanced:
Multi-path streaming
Multi-ISP streaming (*)
Rate limitation (per destination)
NTP client
DNS client
DHCP client

High Availability:
1+1 TS protection (input)
1+1 Link protection (output)
Box redundancy
Facility redundancy(*)

Control and Monitoring

Web GUI
Alarms
Syslog

Remote:
10/100/1000 Base-Tx, RJ-45
HTTP/HTTPS, Telnet / SSH
SNMP (v1, v2, v3)

Local:
RS-232 through RJ-45
2 x USB connectors

Environmental

Operation:
Temperature: 0ºC - 40ºC
32ºF - 104ºF
Humidity: 5% - 85% (non condensing)

Storage and Transportation:
Temperature: -20ºC - 75ºC
4ºF - 167ºF
Humidity: 0% - 95% (non condensing)

Physical and Power

Power:
Max Power Consumption: 250W
Input Voltage: 90-240 VAC, 47-63 Hz

Size:
Chassis (W×H×D): 432×44×380mm
17”×1.7”×15”

Weight:
4.2 kg, 9.3 lb.

Compliance

CE/FCC/UL/RoHS

(*) Available soon

This Product Sheet was provided by DigitalGlue, the premier systems integrator for VideoFlow technology.

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