HST-3000

IP Video Option Specs

Modes

	Terminate
Monitor (Ethernet and Through)	Stats for up to 10 Streams

Set Top Box Emulation

IGMPv2 Emulation	Client
IGMP message status/decode	Status/error message
RTSP emulation	Client
VLAN Tag	On/Off
VLAN ID Selection	0 – 4095
VLAN Priority Selection	0 – 7
User defined MAC address	xx.xx.xx.xx.xx.xx

IP Address
  DHCP client
  DHCP Vendor ID extension selection — On/Off
  DHCP Vendor ID data entry — alpha numeric

Service Selection

  Broadcast Video – UDP
  Broadcast Video – RTP
  VOD

Video Source Address Selection

  IP Address and Port Number
  IP Address, Port Number, and VOD URL extension
  RTSP Port Select
  RTSP Vendor Select

Multiple ATM VC Setup Selection	4

  Virtual Channels with Simultaneous Usage
  Selectable Tx PCR (peak cell rate) for Signaling Channel

Video Analysis is Per Video Stream (1 to 3)

Simultaneous Stream Support			3

QoS

PCR Jitter	mSec	Current/Max
IGMP Latency	mSec	
RSTP Latency	mSec	Current/Max Pause/Play

Continuity Error Event Count (0.00%) for each:
Current/Max/History Pass/Fail Threshold Selections
Error Indicator Set Count

Video MOS	MOS Score
Synchronization	Errors Count

Transport Stream (TS) Packet Analysis

	TS Packets	Bytes
Total	X	X
Video	X	X
Audio	X	X
Data	X	X
Unknown	X	X

Video Stream Data Rates

Total	Current/Average/Min/Max
Video	Current/Average/Min/Max
Audio	Current/Average/Min/Max
Data	Current/Average/Min/Max
Unknown	Current/Average/Min/Max

IP Packet Analysis

Total packets RX count
Jitter current/max
RTP packets lost, count
RTP OOS, count
RTP Errors, Count

PID Analysis (each Stream)

PID Number
PID Type (Video, Audio, Data, Unknown)
PID Description

Summary Statistics

Active Stream Count: 1, 2, or 3
Data Rates Combined: Current/Ave/Min/Max

Error Logging
  Timestamp for Error Events:

QoS State Changes	Pass to Fail
	Fail to Pass

Signaling Protocol Message Decode:
IGMP Mesages
RTSP Mesages

  - 500 Message FIFO Buffer Storage
  - File Export

Test Access

ADSL1, 2-wire I/F
ADSL 2, 2-wire I/F
ADSL 2+, 2-wire I/F
10/100 Ethernet I/F

Standards

RFS-2236, IGMP
RFC-2326, RTSP
ISO (IEC 13818), Video Transport Steam and Analysis
ETSI TR 10-290 V2.1, Video Measurements
TFC-1483; 2684, ATM AAL5
RFC-2364, PPPoAAL5

Test & Measurement Regional Sales