



## VIDEO TEST INSTRUMENTS

### LINK LAYER COMPLIANCE TEST APPROVED BY VESA

Introducing the latest video test instrument from Quantum Data, the 882E, which now offers a DisplayPort interface. The DisplayPort transmitter (source) interface is an optional feature of the model 882E test instrument that can deliver blazing fast video at pixel rates up to 268MHz. One (1), 2, and 4-lane configurations are supported at per-lane rates of 1.62Gb/s and 2.7Gb/s. The DisplayPort transmitter supports HDCP and link layer compliance testing of sink devices (displays). The DisplayPort receiver option emulates a DisplayPort sink device and supports link layer compliance testing of DisplayPort source devices. Auxiliary channel transactions can be monitored with the Auxiliary Channel Analyzer (ACA).



## KEY FEATURES + BENEFITS

### DisplayPort Tx Interface

Supports 1, 2 and 4 lanes @ 1.62 GB/s and 2.7 Gb/s per lane provides 10 bits/component up to 268MHz pixel rate.

### DisplayPort Rx Interface

Supports 1, 2 and 4 lanes @ 1.62 GB/s and 2.7 Gb/s per lane provides 10 bits/component up to 268MHz pixel rate.

### HDCP Test

Supports HDCP production and compliance tests for displays.

### Link Layer Compliance Test

Approved by VESA  
Supports link layer compliance testing for source and sink devices.

### Auxiliary Channel Analyzer (optional)

Real time logging of Auxiliary Channel (link layer transactions, DPCD, HDCP and EDID).

### central administration/network control

Update and configure all networked instruments from a single computer.  
Fully control instrument from any network location with web browser or Telnet client.

### graphics SDK

Create complex patterns based on your specifications using C++ software development kit.

### comprehensive timing + patterns

Include extensive library of standard timings and patterns. Add your own custom timings and patterns.

### local pattern storage

Store multiple custom images (.bmp, .jpg and .png) images in instrument.

### easy to use

Access powerful features easily using intuitive user interface.

### multiple configurations

Save and restore different instrument configurations for different users or applications.



DisplayPort analyzer depicted in illustration above

# 882E (DisplayPort)

## HDCP Testing

Authentication and encryption of  
uncompressed DisplayPort video sinks

HDCP Compliance Testing  
(optional)

For testing sink devices

Link Layer Compliance Test  
(optional)

For testing source devices  
For testing sink devices

Auxiliary Channel Analyzer  
(optional)

Real time logging of Auxiliary Channel (link layer  
transactions, DPCD, HDCP and EDID)

## EDID Read

Auto-configuration of generator format list

## Data channels

## Physical

I2C per VESA E-DDC

## Protocols

DDC2B, E-DDC & DDC/CI  
(reads E-EDID Ver 1.4)

## EDID Testing

Reads EDID from display and  
presents as displayed image

## Scrolling Image Test (ImageShift)

Scroll any static image

## All interfaces

## Special Sync Tool

Trigger scope or inspection camera  
anywhere in video

## Formats

## Standard formats

Over 580 formats for testing IT, CE, military  
and other display test applications

Graphical format editor for creating custom formats

## Custom formats

## Patterns

Custom object (.o) files, BMP, JPEG, PNG

## Pattern file types

Over 320 standard static and dynamic

## Standard patterns

images included for testing CRTs and FPDs  
Graphics SDK to create complex patterns

## Custom patterns

15 MB

## Internal data storage

## Test Sequences

Create test sequences with unlimited  
number of steps; each step defines a  
video format, image, sync, gating and  
duration (0.1 sec to 24 hours, or frames)

Software Development Kit  
(SDK)

Create custom images applications using Quantum  
Data SDK (includes API documentation, sample  
application & source)

## DisplayPort TX Interface

## Connectors

Box to box external per spec

## Video

## Lanes

1, 2, 4 (user specified)

## Lane data rate

1.62 Gb/s, 2.7 Gb/s (user specified)

## Bit depths

6, 8, 10

## Colorimetry

RGB, YCbCr

## Sampling

4:4:4

## Formats

VESA: DMT and CVT

## Hot Plug

1) 0.5ms->1.0ms  
2) 2ms

## Aux channel Mode

1) Native for DPCD link configuration  
2) I2C for EDID reads

## Pixel Clock

## Frequency range

Maximum: 268MHz

## Step

Less than 0.1 Hz

## Accuracy

50 ppm (electronically adjustable to  
<5 ppm with external frequency  
counter)

## Horizontal Timing

## Frequency range (kHz)

Maximum: 300 kHz  
Minimum: 1 kHz

## Total pixels (max)

65,534

## Active pixels (max)

4096

## Blank pixels (min)

12 (minimum)

## Step pixels

1

## Vertical Timing

## Frequency range

Maximum: 250 Hz  
Minimum: 23 Hz

## Total lines (max)

2048 progressive, 8,191 interlaced  
and segmented

## Active lines (max)

2048

## Blank lines (min)

1 to Total-1

## Step lines

1

## Scan types

Progressive, interlaced, segmented

## Video Memory

## Size

16,384,000 pixels at 32-bits/pixel  
32,768,000 pixels at 8-bits/pixel

## Maximum width

16,384 pixels at 32 bits/pixel  
16,384 pixels at 8 bits/pixel

## Color depth

32 (24-bit TrueColor) up to 268 MHz  
8 bits up to 268 MHz

## Administration

## Physical user interface (selection keys and display)

## Control interfaces

RS-232 serial AT 10/100 BaseT  
Ethernet (TCP/IP, FTP, Telnet) GPIB

Browser-based virtual control panel to manage  
from any network location

## PCMCIA slot

Compact Flash card to boot generator,  
backup generator configuration, copy  
generator configuration to other generators,  
and store patterns

## General Specifications

## Size (mm)

330 W, 87 H, 284 D

## Humidity

30 to 80% RH (non-condensing)

## Operating temp.

0 to 40° C

## AC Mains

## Frequency

47 to 63 Hz

## Voltage

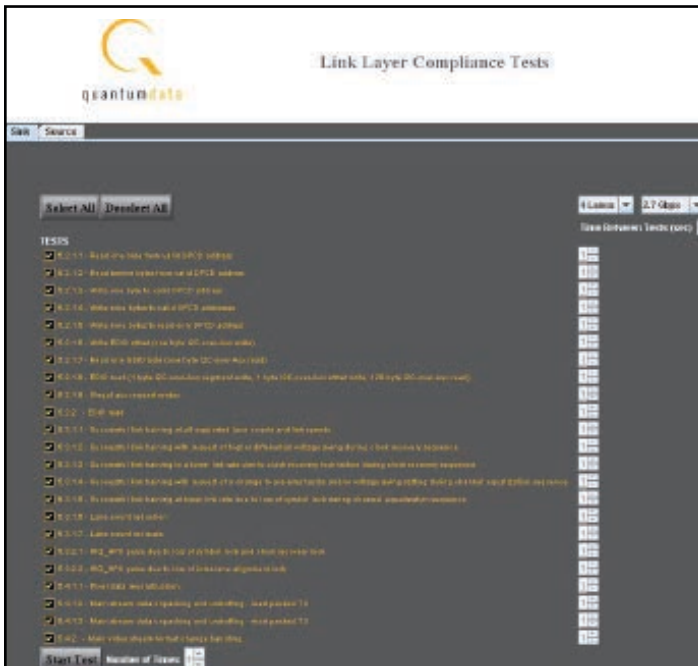
90-264 VAC

## 882E DisplayPort Compliance Test Solutions

The 882E Display Port test instrument provides powerful aux channel related test features including link layer compliance testing and HDCP compliance testing as well as an aux channel protocol analyzer for capturing link training, HDCP and EDID transactions.

## Link Layer Compliance Testing

The 882E offers a VESA approved link layer compliance test. The compliance tests can be configured and run through a graphical user interface. Tests can be run individually or as a complete test suite. You can pick and choose which tests run and how often they are repeated in any one run of the test suite. Once the test is complete, a comprehensive report is provided which shows both a summary section and a detailed section as shown below.



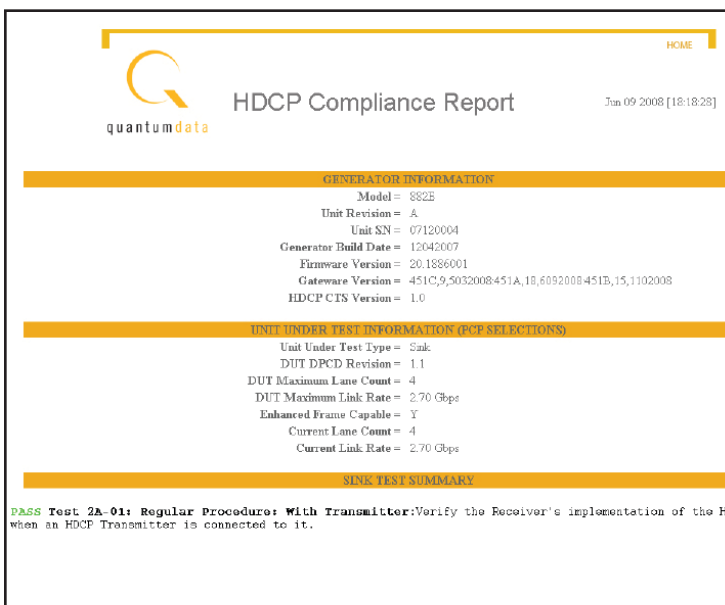
Link Layer Compliance Test Interface



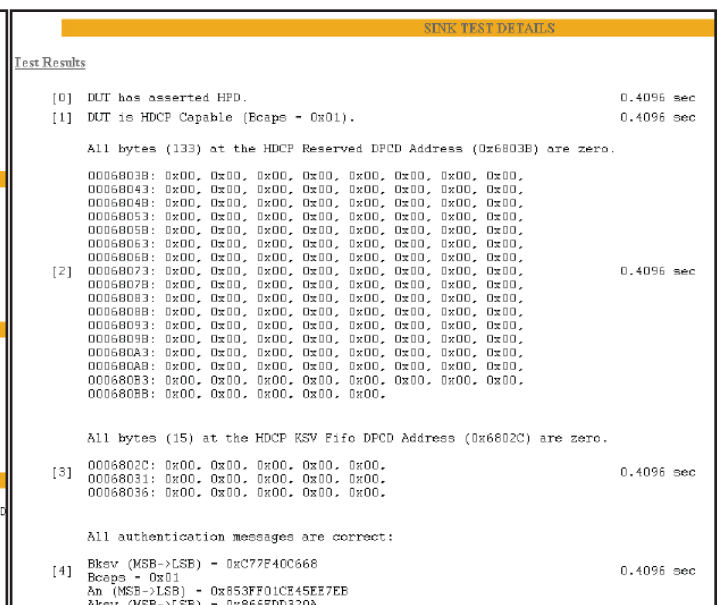
Link Layer Compliance Report

## HDCP Compliance Testing

The 882E provides an approved HDCP compliance test application for DisplayPort. Tests can be run individually through the command line or as a complete test suite through the front panel. Once the test is complete, a comprehensive report is provided which shows both a summary section and a detailed section as shown below.



HDCP Compliance Test Report - Summary



HDCP Compliance Test Report - Detail

## 882E DisplayPort Auxiliary Channel Test Solutions

## Auxiliary Channel Analyzer

The 882E provides an optional auxiliary channel analyzer for monitoring protocol transactions occurring over the auxiliary channel.

You can monitor the aux channel during link training in normal operation, or during link layer compliance testing or HDCP compliance testing. Transactions are parsed out in the “Details” section. This enables you to view the register values in human readable text as shown below.

Quick-and-Easy Binary Chained Analyzer

File EDC CDC DisruptFuzz Search Options

Buttons: Stop, Pause, Load, EDC, EDCDC, HDCF, ECC, EPCD, Events, Others, ALL Packets, DELTA mode

Packet	Seq	Time (s)	Delta Time	Method	Dir	Length	Type	Details
06	00110174.1155	00:01:00.0018		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
07	00110174.1173	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
08	00110174.1189	00:01:00.0013		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
09	00110174.1204	00:01:00.0012		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
10	00110174.1220	00:01:00.0008		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
11	00110174.1235	00:01:00.0003		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
12	00110174.1251	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
13	00110174.1277	00:01:00.0003		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
14	00110174.1293	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
15	00110174.1312	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
16	00110174.1333	00:01:00.0003		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
17	00110174.1351	00:01:00.0003		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
18	00110174.1376	00:01:00.0003		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
19	00110174.1399	00:01:00.0003		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
20	00110174.1424	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
21	00110174.1449	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
22	00110174.1475	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
23	00110174.1500	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
24	00110174.1527	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
25	00110174.1553	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
26	00110174.1579	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
27	00110174.1605	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
28	00110174.1631	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
29	00110174.1657	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
30	00110174.1683	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
31	00110174.1709	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
32	00110174.1735	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
33	00110174.1761	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
34	00110174.1787	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
35	00110174.1813	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
36	00110174.1839	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
37	00110174.1865	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
38	00110174.1891	00:01:00.0002		HEXD <> BYTES	HEXD <> BYTES	HEXD & BYTES from ECCDC		
39	00							

Details

Message Type: HEXD  
Content Type: HEX, ASCII  
DisruptFuzz: HEXD <> BYTES  
Method of Communication: NONE  
Data Bytes: 0x7F, 0x7F, 0x01, 0x01, 0x01, 0x01

STATUS: 1 FuzzBites  
STATUS: 0 FOUND Set

Crash Information

Crash reason last entry: 00110174.1312

Total Time From Start: Remaining: 0.00 min

EDC Buzzes Details

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STATUS: 0 FOUND Set

Crash Information

Crash reason last entry: 00110174.1312

Total Time From Start: Remaining: 0.00 min

EDC Buzzes Details

Message Type: HEXD  
Content Type: HEX, ASCII  
DisruptFuzz: HEXD <> BYTES  
Method of Communication: NONE  
Data Bytes: 0x7F, 0x7F, 0x01, 0x01, 0x01, 0x01

STATUS: 1 FuzzBites  
STATUS: 0 FOUND Set

Crash Information

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DisruptFuzz: HEXD <> BYTES  
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STATUS: 0 FOUND Set

Crash Information

Crash reason last entry: 00110174.1312

Total Time From Start: Remaining: 0.00 min

EDC Buzzes Details

Message Type: HEXD  
Content Type: HEX, ASCII  
DisruptFuzz: HEXD <> BYTES  
Method of Communication: NONE  
Data Bytes: 0x7F, 0x7F

## Link Layer Transactions

Open Source Security Analysis (Anomaly Analysis) - version 1.15
File Edit View Options Help

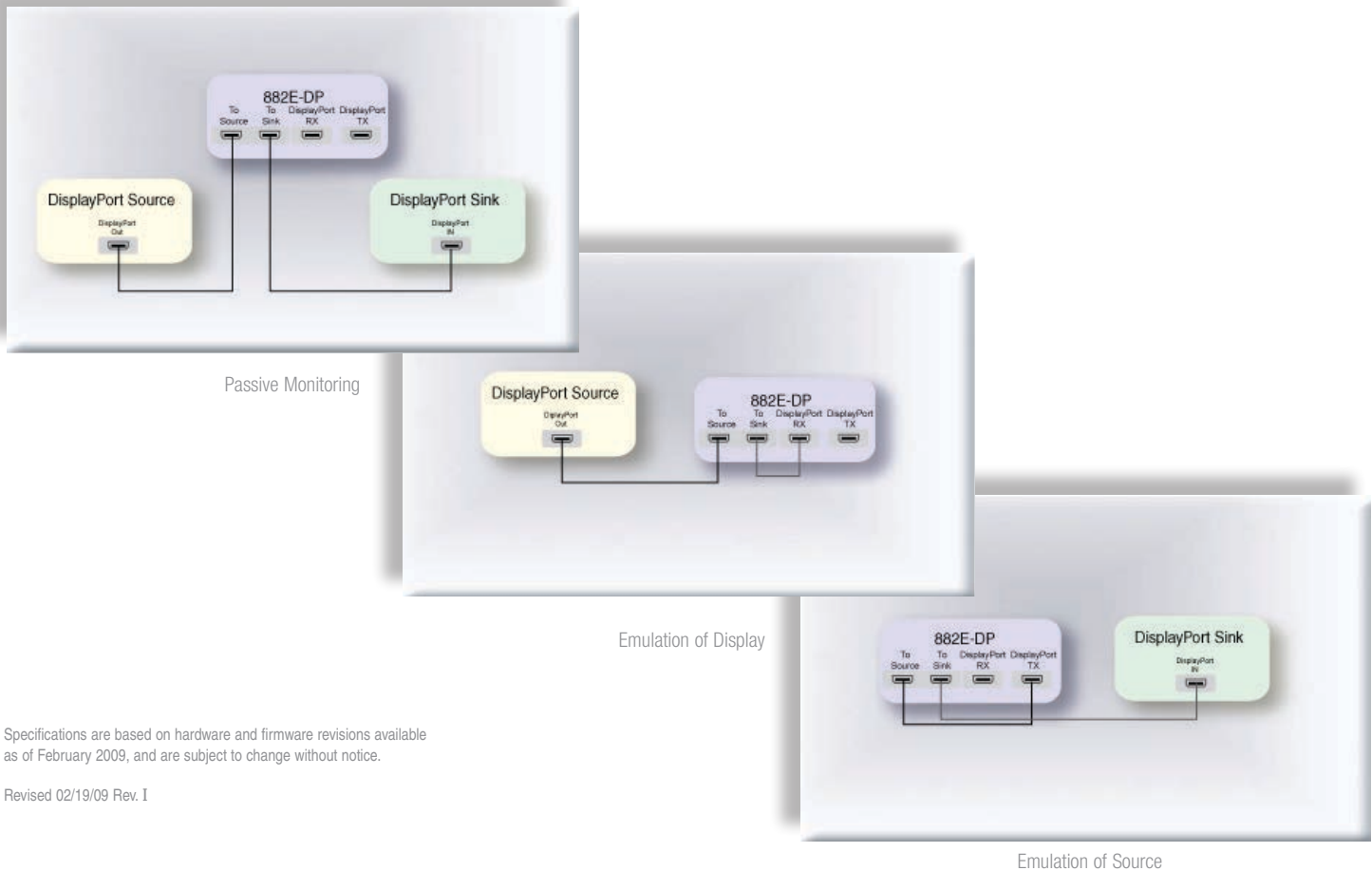
Go Ctrl-G Quick-Find Search Options
Find Replace Undo Redo Copy Paste Print Close All Palettes Compiler On

Pause
Print
Find
Replace
Undo
Redo
Copy
Paste
Print
Close
All Palettes
Compiler On

Packet	Time	Source	Destination	Protocol	Length	Info
0	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
1	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
2	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
3	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
4	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
5	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
6	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
7	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
8	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
9	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
10	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
11	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
12	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
13	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
14	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
15	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
16	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
17	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
18	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
19	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
20	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
21	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
22	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
23	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
24	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
25	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
26	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
27	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
28	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
29	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
30	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
31	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
32	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
33	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
34	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.168.1.1
35	00:00:00.0000	192.168.1.1	192.168.1.1	ICMP	8	8 bytes from 192.

HDCP Transactions

There are three configurations for monitoring the DisplayPort transactions. You can monitor the aux channel transactions either while the 882E is emulating a DisplayPort sink for testing a source device, or while emulating a DisplayPort source device for testing a sink device. You can also monitor passively between a DisplayPort source and sink device. These configurations are depicted below.



Specifications are based on hardware and firmware revisions available as of February 2009, and are subject to change without notice.

Revised 02/19/09 Rev. I