


		Quantum Data 780 Series Comparison Chart				Notes
		Product Family >				
Product/Hardware >		780	780A	780B	780C	
Interface Technology	Description					Interface Notes:
Tx HDMI 225MHz	HDMI Tx enables testing of HDMI sink devices up to 225MHz	•	•	•	•	1. Supports resolutions higher than 80MHz through pixel doubling.
Rx HDMI 225MHz	HDMI Rx enables testing of HDMI source devices up to 225MHz	•	•	•	•	
Tx HDMI 300MHz	HDMI Tx enables testing of HDMI sink devices up to 300MHz		•	•	•	
Rx HDMI 300MHz	HDMI Rx enables testing of HDMI source devices up to 300MHz		•	•	•	
Tx HDBaseT 300MHz	HDBaseT Tx enables testing of HDBaseT sink devices up to 300MHz				•	
Rx HDBaseT 300MHz	HDBaseT Rx enables testing of HDBaseT source devices up to 300MHz				•	
Tx 3G-SDI – 2.97Gb/s	3G-SDI Tx enables testing of 3G-SDI sink devices up to 3G data rates 2.97Gb/s				•	
Rx 3G-SDI – 2.97Gb/s	3G-SDI Rx enables testing of 3G-SDI source devices up to 3G data rates 2.97Gb/s				•	
Analog TV Component	Test analog component video for TV sink devices up to 80MHz	•	•	•	•	
Analog RGB for computers	Test analog RGB video for PCs	•1	•1	•1	•1	
Functional Tests (Sinks)						Functional Tests (sinks) Notes
Video Pattern Testing	Run pattern tests using standard patterns and timing formats	•	•	•	•	1. Part of Network Analyzer optional feature package. 2. Part of Aux Channel <i>Emulation</i> monitor optional feature package. 3. Limited to: active interface (e.g. HDMI, VGA), format resolution and test pattern. 4. Shows full status of HDMI outgoing stream: active interface (e.g. HDMI, VGA), format resolution, test pattern, 3D status, audio format. HDCP status, AVMMute status).
Test Pattern Library	Greater than 100 test patterns	•	•	•	•	
Format Library	Large format library	•	•	•	•	
Customization	Ability to add new bitmaps, formats, store EDIDs	•	•	•	•	
Configurability	Ability to quickly set the video format and video type and mode, etc	•	•	•	•	
Deep Color Testing	Run pattern tests using deep color patterns and timing formats	•	•	•	•	
HDMI 2.0 4:2:0 Testing	Generator patterns with 4:2:0 pixel encoding with 4K formats at 60Hz		•	•	•	
HDMI 2.0 21:9 Formats	Generator 861-F 21:9 video timing formats			•	•	
Audio Testing	Run audio tests with uncompressed and compressed formats	•	•	•	•	
3D Rendering	Run 3D pattern tests with using standard 3D patterns and mandatory formats	•	•	•	•	
Animated test patterns/clips	Support scrolling test patterns or clips for testing motion artifacts	•	•	•	•	
HDCP Verification	Show HDCP test on sink. Show each of the key steps in authentication	•1	•1	•	•	
EDID Verification	Read sink EDID in human text, run partial EDID compliance test	•1	•1	•	•	
Aux Channel Monitoring	View hot plug events, EDID exchange, HDCP transactions and CEC messages	•2	•2	•2	•2	
ARC Rx emulation	Emulate an ARC Rx to test an ARC Tx (HDMI sink)		•	•	•	
Status bar showing HDMI Out status	Shows basic audio, video and other characteristics of the outgoing HDMI stream	•3	•3	•4	•4	
Functional Tests (Sources)						Functional Tests (Sources) Notes
View Source metadata (snapshot)	View protocol and metadata data snapshots	•1	•1	•	•	1. Part of Network Analyzer optional feature package. 2. Part of Aux Channel <i>Emulation</i> monitor optional feature package. 3. Part of Cable/Repeater optional feature package. 4. Limited to LPCM. 5. Shows full status of HDMI incoming stream. 6. Optional feature.
View Incoming Video	Ability to view the video coming in from the HDMI source as a confidence test	•	•	•	•	
HDMI 2.0 4:2:0 Testing	View video content from HDMI 2.0 4:2:0 pixel encoding with 4K formats at 60Hz		•	•	•	
EDID Emulation	Create EDIDs and emulate any EDID and test source response	•	•	•	•	
HDMI 2.0 EDID Emulation	Emulate EDIDs with HDMI 2.0 HF-VSDB		•	•	•	
Aux Channel Monitoring	View hot plug events, EDID, HDCP & CEC transactions with source	•2	•2	•2	•2	
Timing Analyzer (basic – snapshot)	View detailed timing data as snapshots; compare with standard timing	•1	•1	•	•	
Frame Compare Test	Test for pixel errors with “golden frame”	•3	•3	•3	•3	
Monitor incoming audio, audibly	Ability to listen to incoming audio		•4	•4	•4	
ARC Rx emulation	Emulate an ARC Tx to test an ARC Rx (HDMI source).		•	•	•	
Status bar showing HDMI In status	Shows basic audio, video and other characteristics of the incoming HDMI stream.			•5	•5	
Auto EDID test	Test a sources response to user selected set of EDIDs.			•6	•6	
Functional Tests (cables/networks)						Functional Tests (cables/networks) Notes
Cable & Link Test (loopback)	Run pseudo-random noise tests on HDMI cables or distribution networks	•1	•1	•1	•1	1. Part of Cable/Repeater optional feature package. 2. Part of Aux Channel <i>Passive</i> monitor optional feature package.
Aux Channel Passive Monitoring	View hot plug events, EDID, HDCP, CEC transactions between source and sink	•2	•2	•2	•2	
Passthrough mode						
Pass through video source to sink	Allow a source device's 4K input to be passed through to a connected display		•	•	•	
Operational						Operational Notes
Touch Screen	Convenient operation and status information available through embedded GUI	•	•	•1	•1	1. Larger 7 inch color touch screen (800 x 480).
Command line through USB	Control the operation through 882 compatible commands via the USB	•	•	•	•	
Command line through RS-232	Control the operation through 882 compatible commands via the RS-232	•	•	•	•	