

MyDP High- Definition Link Test Adapters

User Manual



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Table of Contents

Introduction.....	3
Product Inspection	4
The MyDP Test Adapter Care and Handling Precautions	5
General Test Adapter and Connectors	7
Handling and storage.....	7
Visual inspection.....	7
Cleaning	7
Making Connections	7
Electrostatic Discharge Information	8
Application Reference for MYDP-TPA-P and MYDP-TPA-R	9
MyDP Plug Testing:.....	9
MyDP Plug Test Set-up Example 1.....	10
MyDP Plug Test Set-up Example 2.....	11
MyDP Receptacle Testing:.....	14
MyDP Plug and Receptacle Electrical Specifications	20
Application Reference for MYDP-TPA-SCR and MYDP-TPA-ACT	21
MyDP Source Testing:.....	21
MyDP Dongle Testing:	24
Other Mechanical and Environmental Specifications	27
Wilder Technologies, LLC – Terms & Conditions of Sale	29
Compliance with Environmental Legislation	30
WEEE Compliance Statement.....	30
Glossary of Terms	31
Index	32

Introduction

This user's guide documents the operation of the MyDP Test Adapters. The purpose of MYDP-TPAs is to evaluate the interoperation between a MyDP Source device and an active protocol converter or between a MyDP Source device and a DisplayPort Sink device as outlined in the VESA Mobility DisplayPort (MyDP) Compliance Test Specification (CTS).

The MYDP-TPA-P is used to directly connect instrumentation to a MyDP Source. The MYDP-TPA-R is used to directly connect instrumentation to an Active Protocol Converter or Dongle. These Source/Sink test adapter assemblies allow easy access, via SMA connections for differential, common mode, or single ended testing. The MYDP-TPA-SCR is used for DisplayPort based testing of the MyDP Source. The MYDP-TPA-ACT is used for DisplayPort based testing of an Active Protocol Converter. The MYDP-TPAs have selectable or preset pull-downs for MyDP discovery. Please refer to the MyDP Method of Implementation (MOI) specific to your instrumentation for further details of this testing.

NOTE: To avoid damaging the MYDP-TPAs, use the handling techniques described in the Care and Handling section before making any connections or configuring a test setup.

Always use a static-safe workstation when performing tests, as explained in the "Electrostatic Discharge Information" section.

NOTE: The metal shield of both the plugs and receptacle for each of the connectors in the MYDP-TPAs are configured at the factory to tie high-speed ground to chassis ground.

Product Inspection

Upon receiving the MYDP-TPAs from Wilder Technologies, perform the following product inspection:

- Inspect the outer shipping container, foam-lined instrument case or storage box, and product for damage. Retain the outer cardboard shipping container until the contents of the shipment have been inspected for completeness and the product has been checked mechanically and electrically. Use the foam-lined instrument-case or storage box for secure storage of the Wilder Technologies MyDP Test Adapters when not in use.
- Locate the shipping list and verify that all items ordered were received.
- In the unlikely event that the product is defective or incomplete, the “Limited Warranty” section discusses how to contact Wilder Technologies for technical assistance and/or how to package the product for return.

The MyDP Test Adapter Care and Handling Precautions

The MyDP Test Adapter requires careful handling to avoid damage. Improper handling techniques, or using too small a cable bend radius, can damage the instrumentation coaxial cable connections themselves. This can occur at any point along the cable. To achieve optimum performance and to prolong the MYDP-TPA's life, observe the following handling precautions:

- **CAUTION 1: Avoid Torque Forces (Twisting)**
Twisting the MYDP-TPA as a unit, with one end held stationary, in excess of +/- 90° may damage or severely degrade performance of instrumentation cables. Adherence to Caution 5 (below) helps to avoid exceeding twist limits.
- **CAUTION 2: Avoid Sharp Cable Bends**
Never bend instrumentation cables beyond the minimum bend radius as specified by the instrumentation cable manufacturer.
- **CAUTION 3: Avoid Cable Tension (Pull Forces)**
Avoid applying tension to the MYDP-TPA/instrumentation cable interface. Always place the MYDP-TPA and equipment on a surface that allows adjustment to eliminate tension on the MYDP-TPA and attached instrumentation cables. Use adjustable elevation stands or apparatus to accurately place and support the MYDP-TPA and attached instrumentation cables.
- **CAUTION 4: Connect the MYDP-TPA First**
To prevent twisting, bending, or applying tension to the instrumentation coaxial cables when connecting a MYDP-TPA assembly, always attach the MYDP-TPA to the device under test (DUT) or cable under test before attaching any SMA connectors. Carefully align the MyDP connectors and then gently push the connectors together until fully seated.

If the MYDP-TPA must be turned or twisted to make connection to the DUT, avoid using the MYDP-TPA alone to make this occur. Try to distribute the torque forces along the length of the test setup and cabling. If this is not possible, it is recommended to first loosen or disconnect the SMA connections at the MYDP-TPA, make the connection to the DUT and then re-tighten or attach the test equipment leads.

NOTE: Only grip the test adapter primary connector assembly(s) when inserting or extracting the MYDP-TPA to or from the DUT. Pulling directly on the cable under test or using them to insert the MYDP-TPA may cause damage.

- **CAUTION 5: Carefully Make SMA Connections**

To connect the MYDP-TPA SMA connectors, follow these steps:

1. Hold the TPA stationary by grasping the TPA near the SMA connector.
2. Insert the mating SMA barrel and hand-tighten the free-spinning SMA nut onto the connector while avoiding pulling, bending, or twisting the MYDP-TPA.
3. When attaching instrumentation cables to the MYDP-TPA, it is recommended that the MYDP-TPA SMA connectors be mechanically held and the test leads be tightened to the equipment manufacturer's torque recommendations, normally 5 in-lbs, using a 5/16-inch open-end wrench.

If the test set-up requires repositioning, first loosen or disconnect the SMA connections to avoid twisting, bending, or tension.

- **CAUTION 6: Independently Support Instrument Cables**

Excessive weight from instrumentation cables connected to the MYDP-TPA can cause damage or affect the test adapter performance. Be sure to provide appropriate means to support and stabilize all test set-up components.

General Test Adapter and Connectors

Observing simple precautions can ensure accurate and reliable measurements.

Handling and storage

Before each use of the MYDP-TPA, ensure that all connectors are clean. Handle all MYDP-TPAs carefully and store the MYDP-TPA in the foam-lined instrument case or storage box when not in use, if possible. Do not set connectors contact end down. Install the SMA protective end caps when the MYDP-TPA is not in use.

Visual inspection

Be sure to inspect all instrumentation cables carefully before making a connection. Inspect all instrumentation cables for metal particles, scratches, deformed threads, dents, or bent, broken, or misaligned center conductors. Do not use damaged cables.

Cleaning

If necessary, clean the connectors using low-pressure (less than 60 PSI) compressed air or nitrogen with an effective oil-vapor filter and condensation trap. Clean the instrumentation cable threads, if necessary, following the manufacturers cleaning procedures. If necessary, clean MYDP-TPA SMA connectors using a lint-free swab or cleaning cloth moistened with isopropyl alcohol. Always completely dry a connector before use. Do not use abrasives to clean the connectors. Re-inspect connectors, making sure no particles or residue remains.

Making Connections

Before making any connections, review the “Care and Handling Precautions” section. Follow these guidelines when making connections:

- Align cables carefully
- Make preliminary connection lightly
- To tighten, turn connector nut only
- Do not apply bending force to instrumentation cables
- Do not over- tighten preliminary connections
- Do not twist cables
- Use an appropriately sized torque wrench, and do not tighten past the “break” point of the torque wrench

Electrostatic Discharge Information

Protection against electrostatic discharge (ESD) is essential while connecting, inspecting, or cleaning the MYDP-TPA test adapter and connectors attached to a static-sensitive circuit (such as those found in test sets).

Electrostatic discharge can damage or destroy electronic components. Be sure to perform all work on electronic assemblies at a static-safe work station, using two types of ESD protection:

- Conductive table-mat and wrist-strap combination
- Conductive floor-mat and heel-strap combination

When used together, both of these types provide a significant level of ESD protection. Used alone, the table-mat and wrist-strap combination provide adequate ESD protection. To ensure user safety, the static-safe accessories must provide at least 1 M Ω of isolation from ground. Acceptable ESD accessories may be purchased from a local supplier.

WARNING: These techniques for a static-safe work station should not be used when working on circuitry with a voltage potential greater than 500 volts.

Application Reference for MYDP-TPA-P and MYDP-TPA-R

The MYDP-TPAs support all testing of the MyDP CTS PHY. They have been designed specifically for the measurements contained in the CTS PHY, limited only by the specifications, environmental, care and handling as stated in this document.

The following examples are suggestions for possible testing setups. Please refer to the MyDP CTS PHY and the applicable MyDP MOI for specific details of testing.

MyDP Plug Testing:

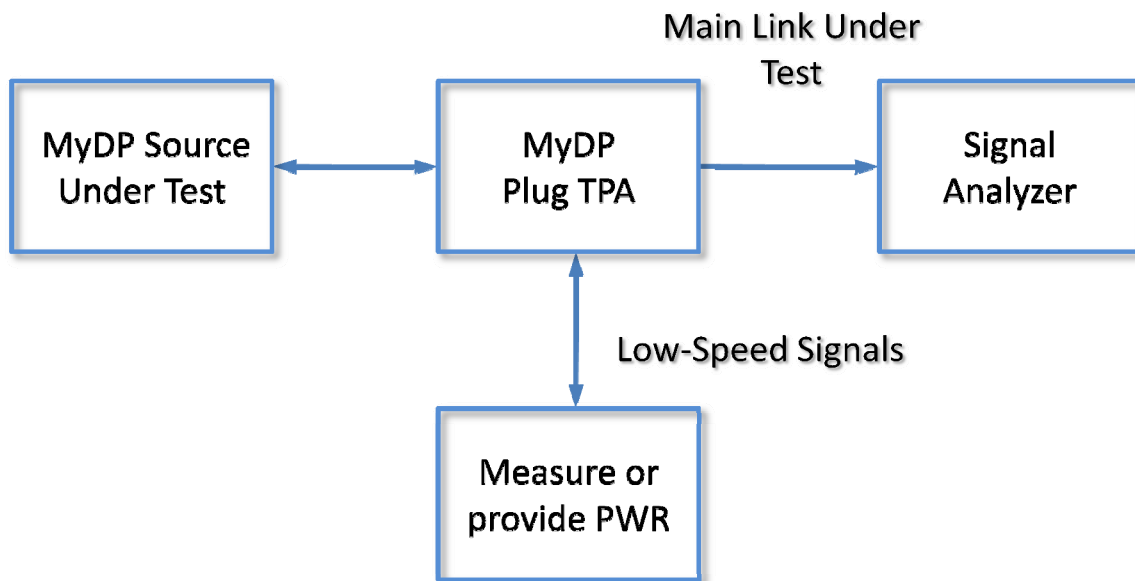


Figure 1. The MYDP-TPA-P as used in a high-speed source test example

MyDP Plug Test Set-up Example 1

(Shown using Agilent test equipment and Wilder DisplayPort Aux Control Module)

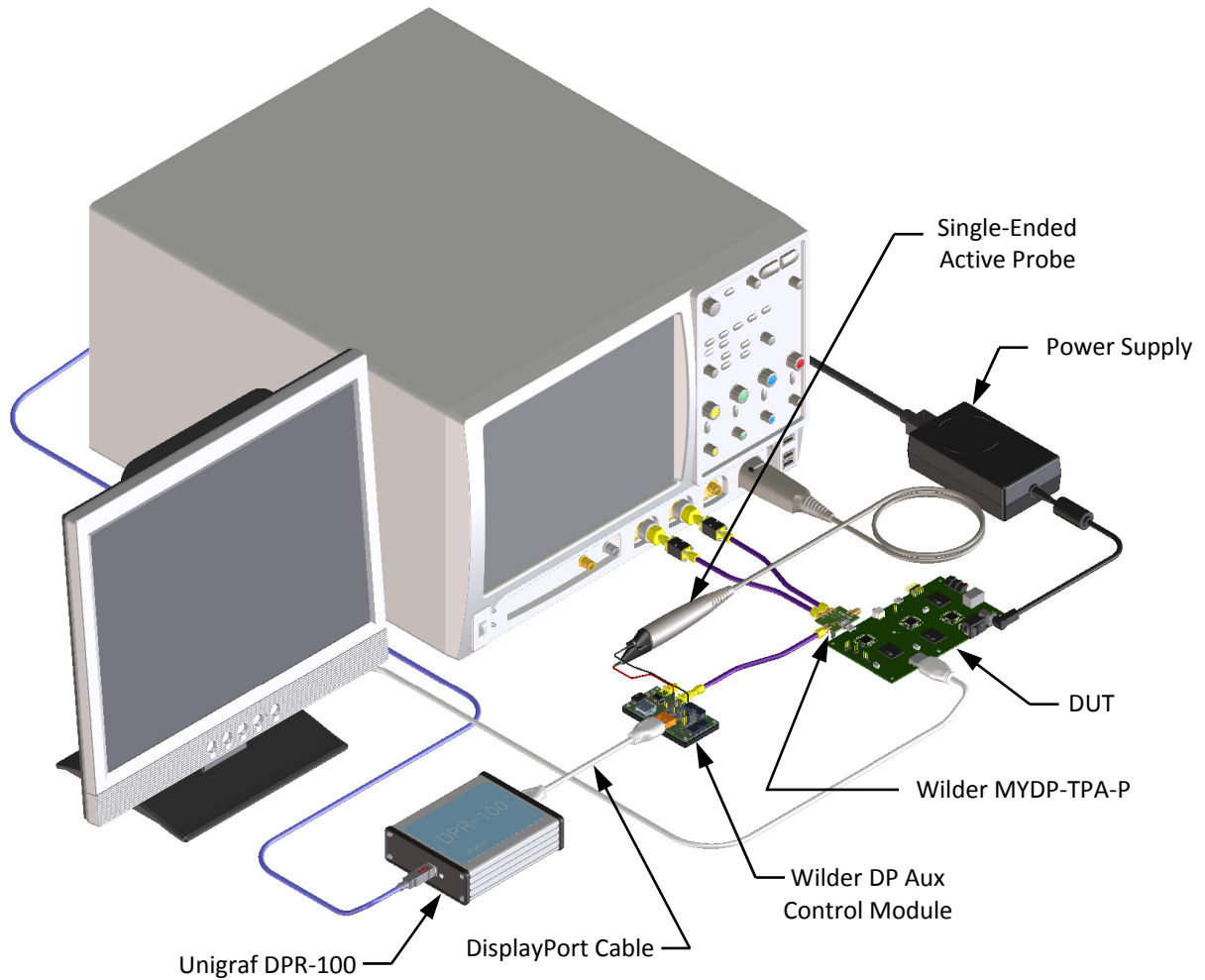


Figure 2. The MYDP-TPA-P and Wilder DisplayPort Aux Control Module as used in a high-speed source test example.

MyDP Plug Test Set-up Example 2

(Shown using Agilent test equipment and Wilder MyDP Aux-P Access Cable)

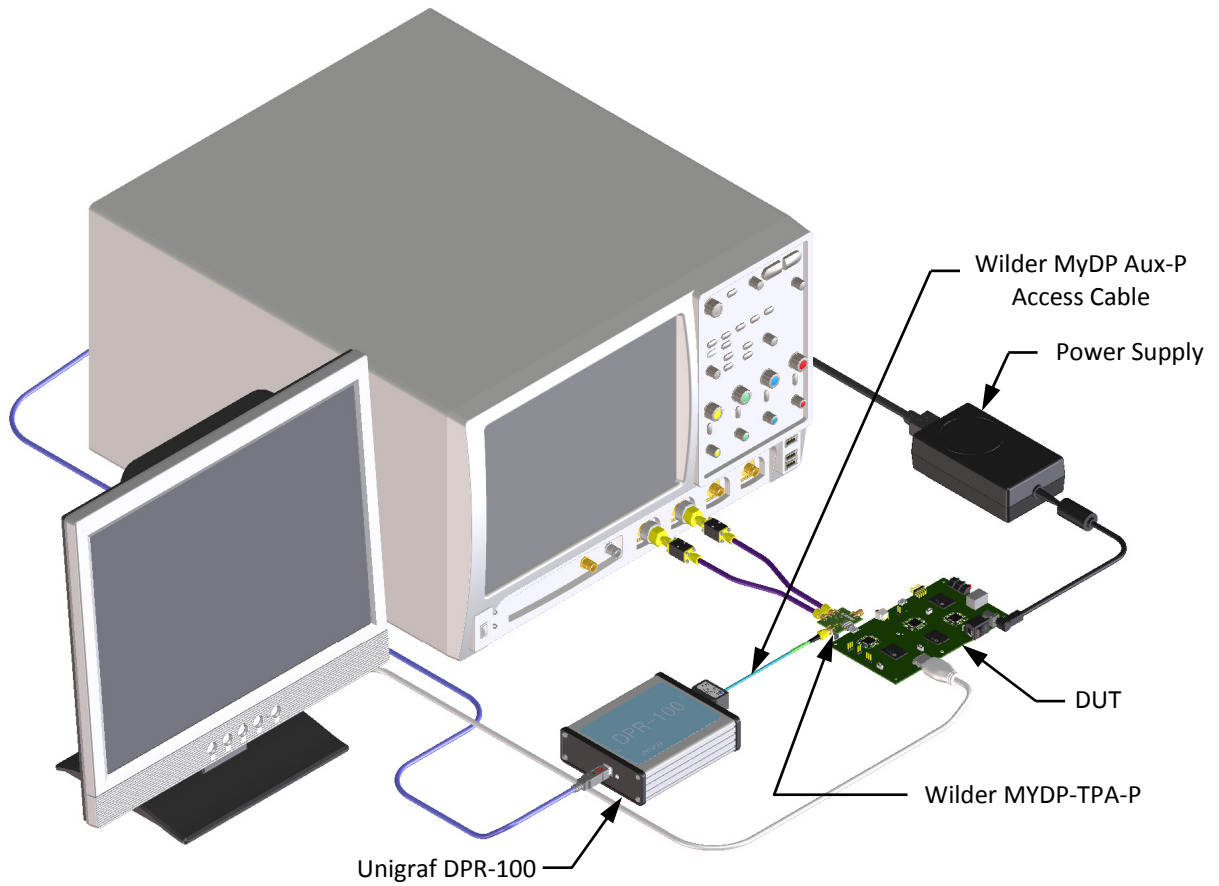


Figure 3. The MYDP-TPA-P and Wilder MyDP Aux-P Access Cable as used in a high-speed source test example.

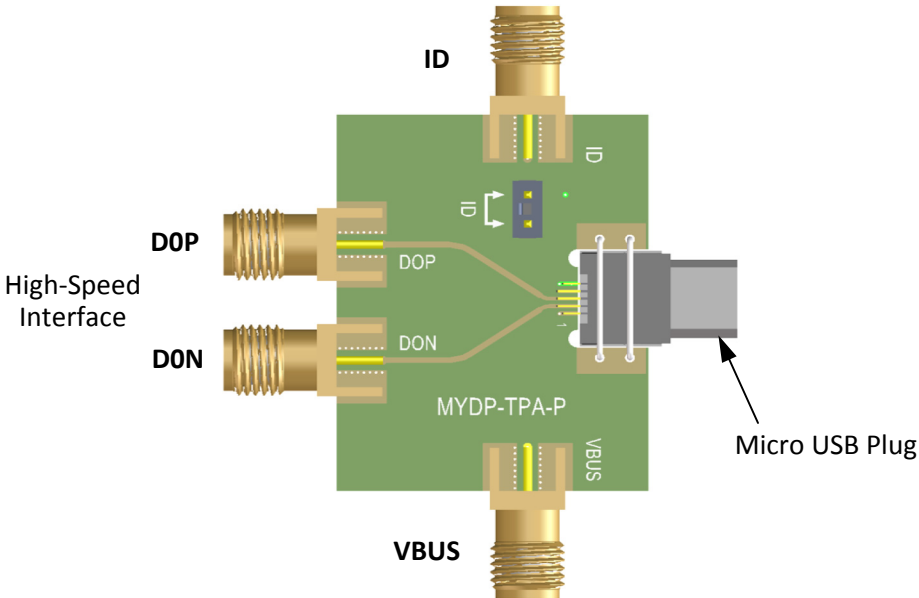
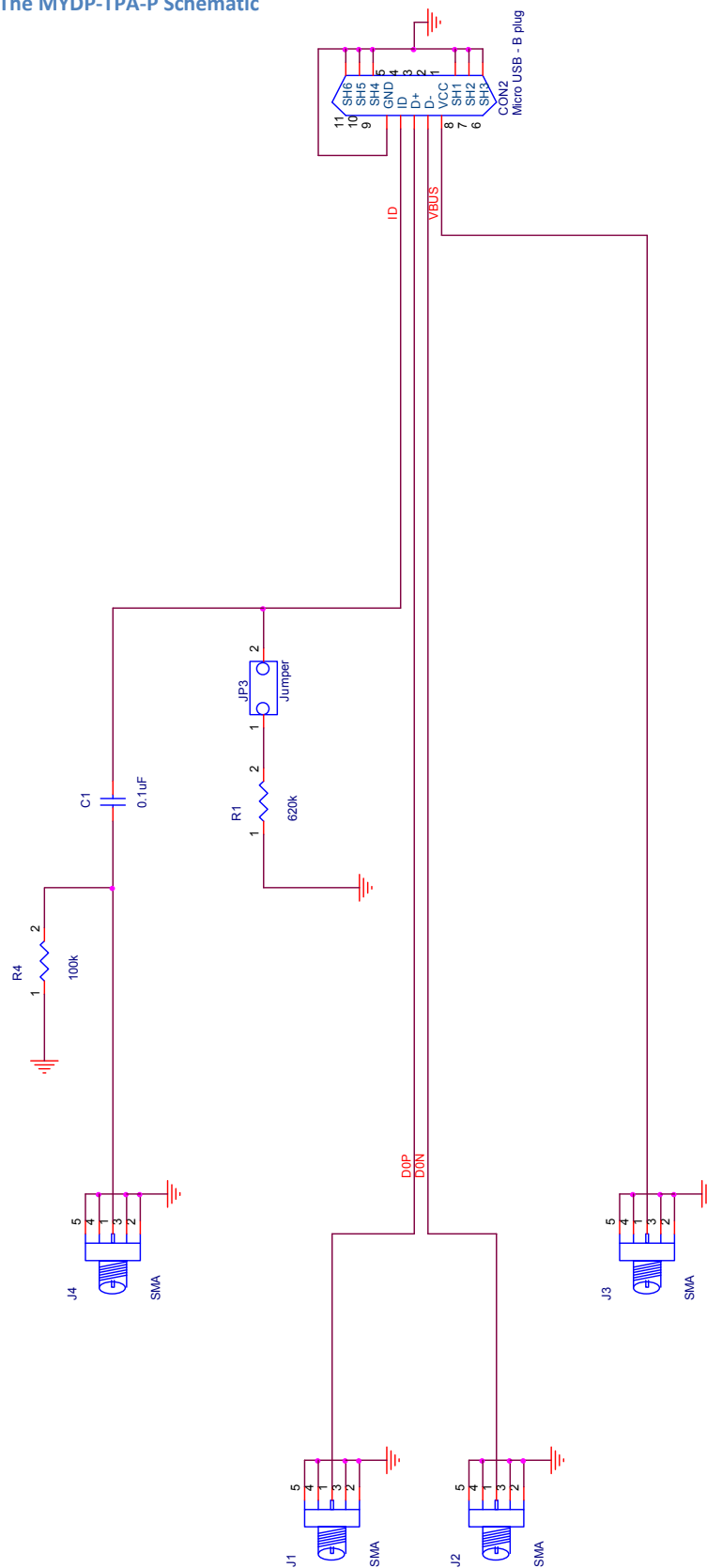


Figure 4. The MYDP-TPA-P

Table 1. Connections for the MYDP-TPA-P

LABEL	SIGNAL IDENTIFICATION	CONNECTION	DESCRIPTION
VBus	VBus	uUSB plug pin 1 to SMA	
DON	Negative MyDP signal	uUSB plug pin 2 to SMA	This is the signal from the based source.
DOP	Positive MyDP signal	uUSB plug pin 3 to SMA	This is the signal from the based source.
ID	ID	uUSB plug pin 4 to ID Jumper pin 2, SMA	
(none)	GND	uUSB plug shield, pin 5 and all SMA Shields	RF Ground

Figure 5. The MYDP-TPA-P Schematic



MyDP Receptacle Testing:

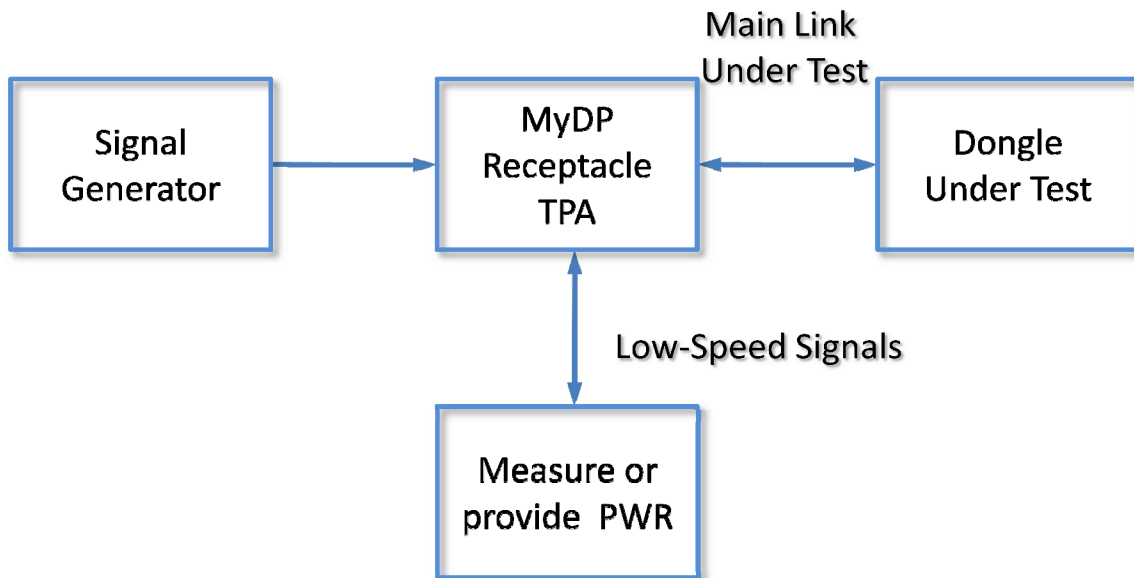


Figure 6. The MYDP-TPA-R as used in a high-speed Dongle test example

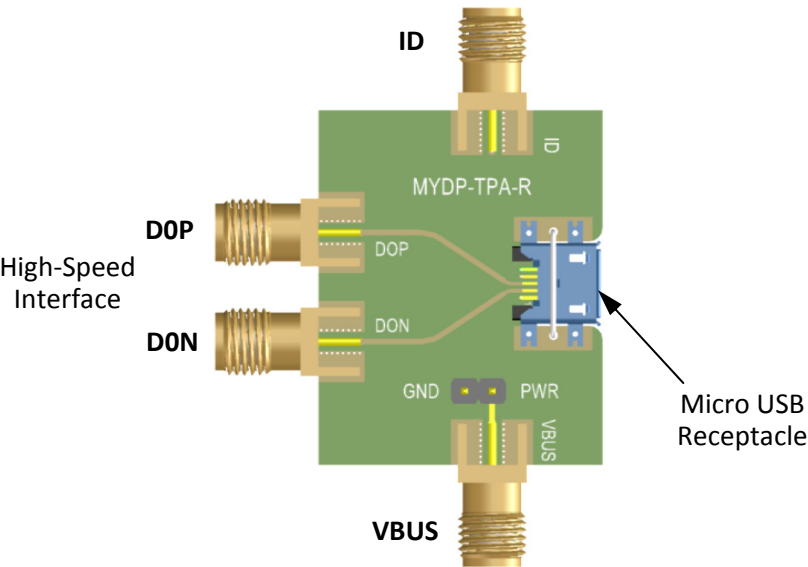
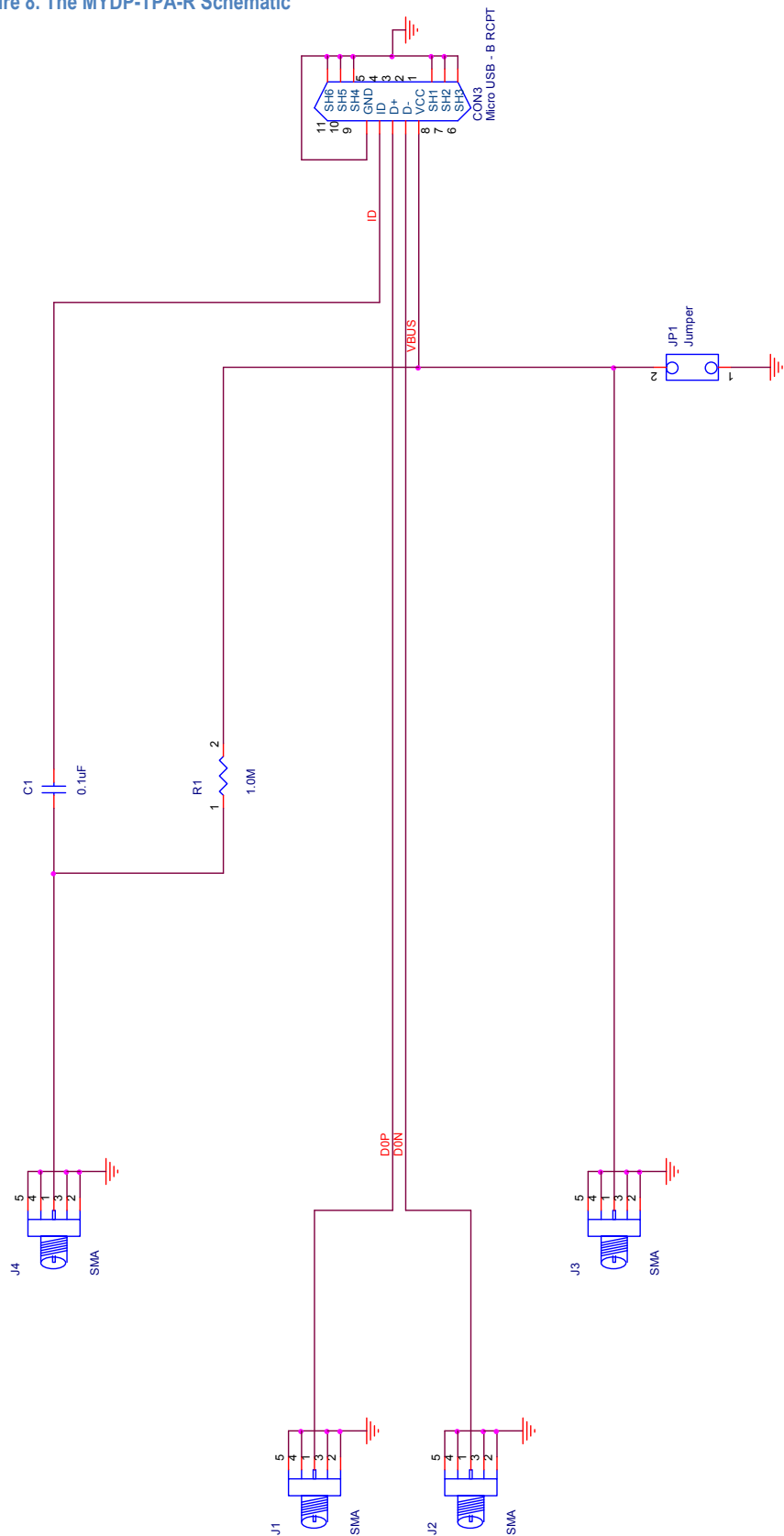


Figure 7. The MYDP-TPA-R

Table 2. Connections for the MYDP-TPA-R

LABEL	SIGNAL IDENTIFICATION	CONNECTION	DESCRIPTION
VBUS	VBUS	uUSB receptacle pin 1 to jumper pin 2 (PWR) to SMA	
DON	Negative MyDP signal	uUSB receptacle pin 2 to SMA	This is the signal from the based source.
DOP	Positive MyDP signal	uUSB receptacle pin 3 to SMA	This is the signal from the based source.
ID	ID	uUSB receptacle pin 4 to SMA	
(none)	GND	uUSB receptacle shield, pin 5 and all SMA Shields	RF Ground

Figure 8. The MYDP-TPA-R Schematic



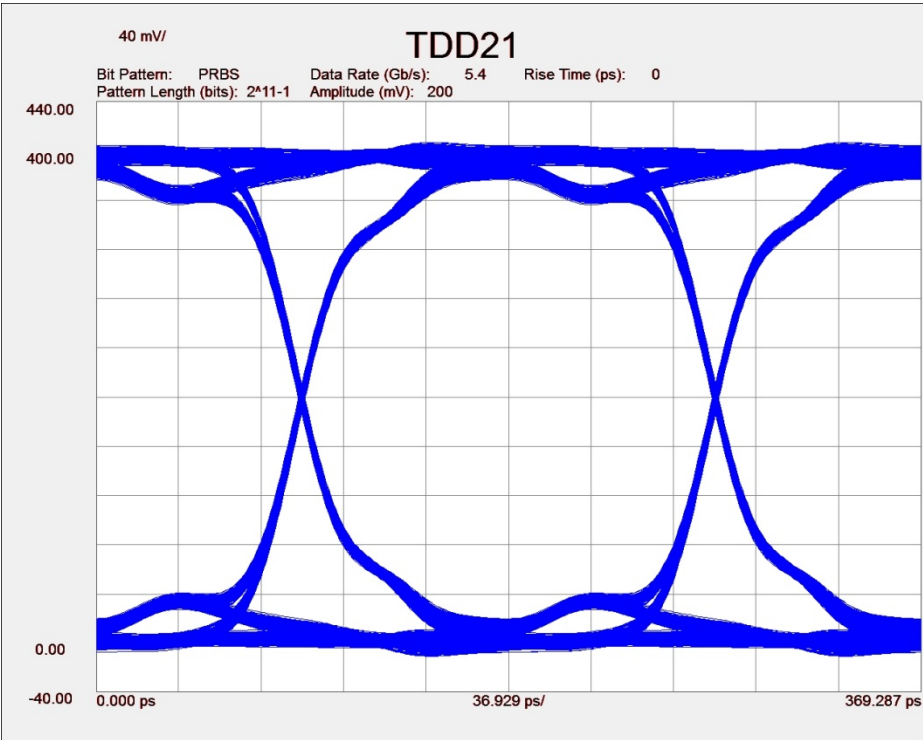


Figure 9. Typical mated pair 5.4 Gb/s eye diagram

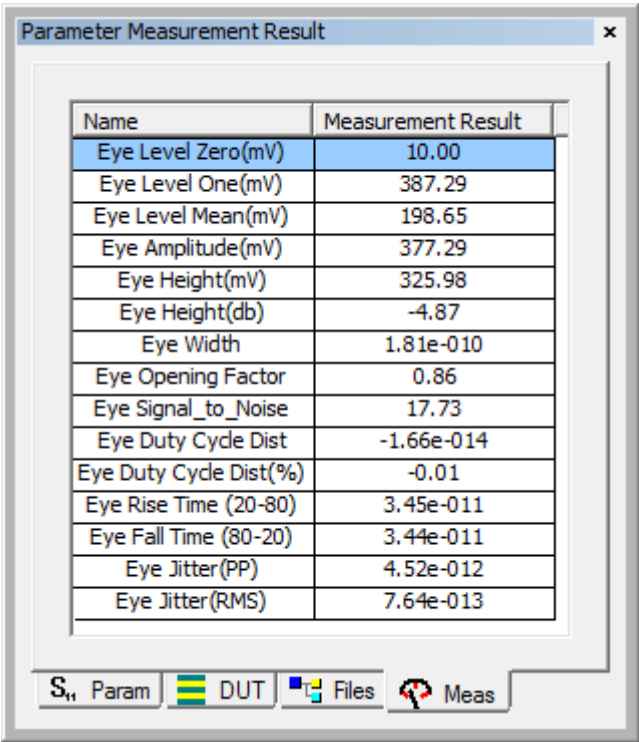


Figure 10. Typical mated pair 5.4 Gb/s eye measurements

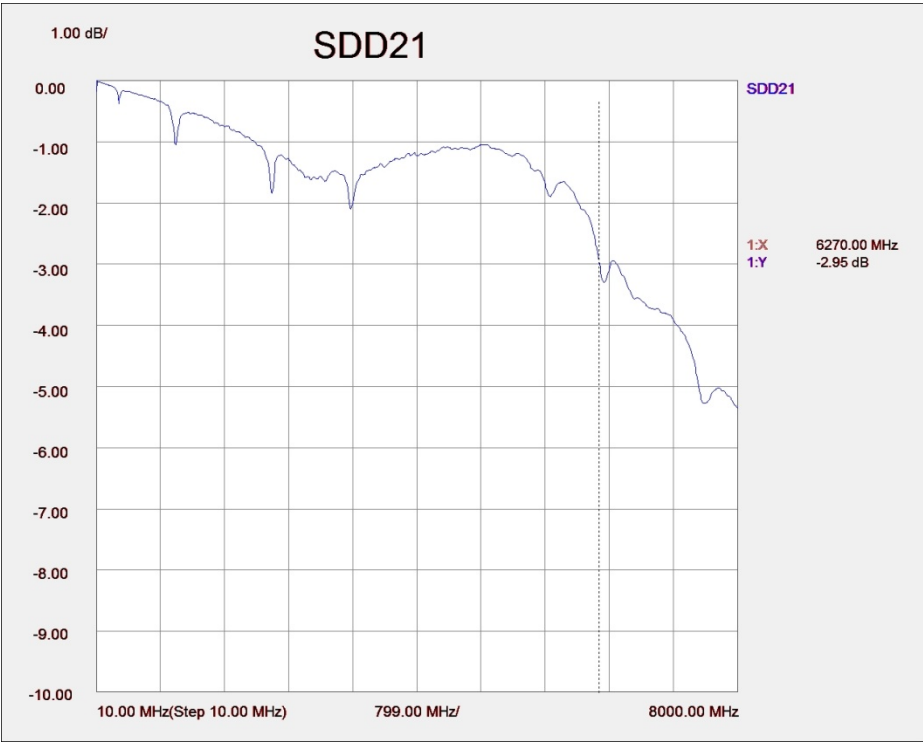


Figure 11. Typical mated pair balanced insertion loss.

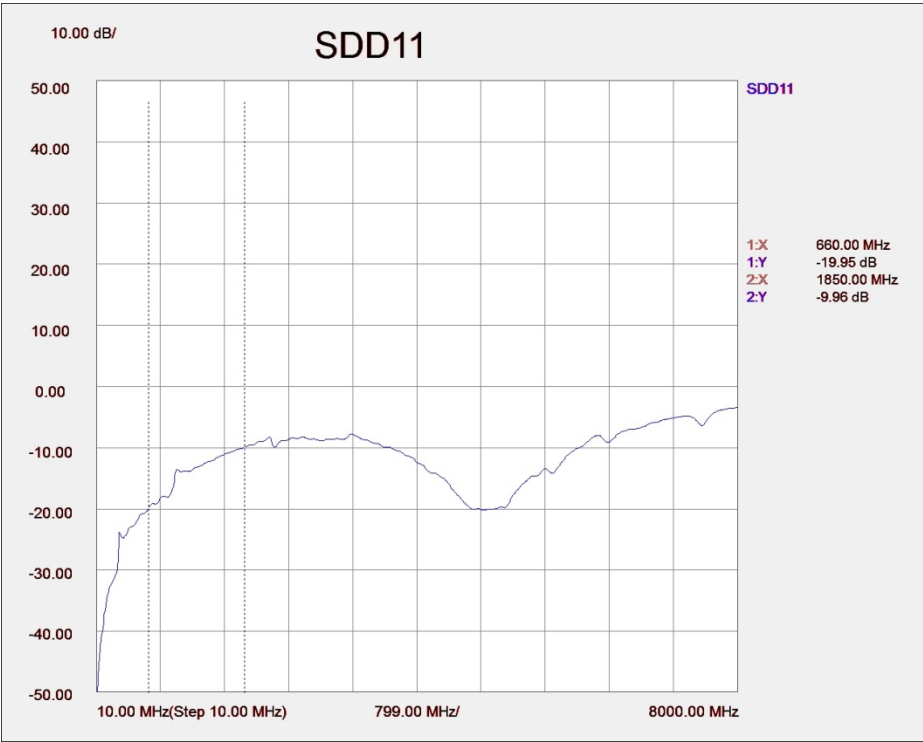


Figure 12. Typical mated pair balanced return loss

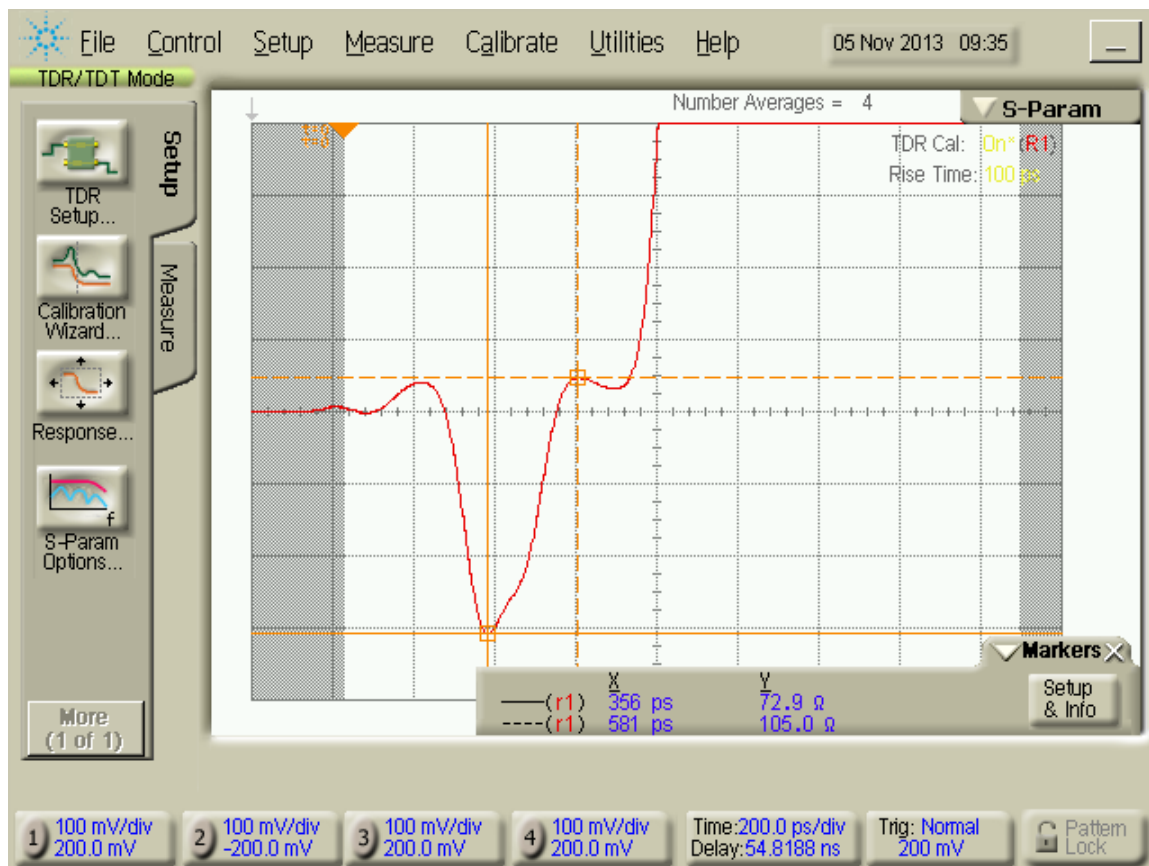


Figure 13. Typical Differential TDR of calibration at 100 ps Rise Time

MyDP Plug and Receptacle Electrical Specifications

NOTE: All specifications in this manual are subject to change.

Table 3. Electrical Specifications, MYDP-TPA-P connected to MYDP-TPA-R.

SPECIFICATION	MINIMUM	TYPICAL	MAXIMUM	NOTES
Balanced Insertion Loss (GHz), at -3 db		6.27		MyDP signals on Sink cal
Balanced Return Loss (GHz), at -10 db		1.85		MyDP signals on Sink cal
Differential Impedance at 100ps, 10%-90%	90		110	Plug and Receptacle TPA, excluding main connector
Intra-lane Skew (ps)	-2		2	MyDP signals

Application Reference for MYDP-TPA-SCR and MYDP-TPA-ACT

MyDP Source Testing:

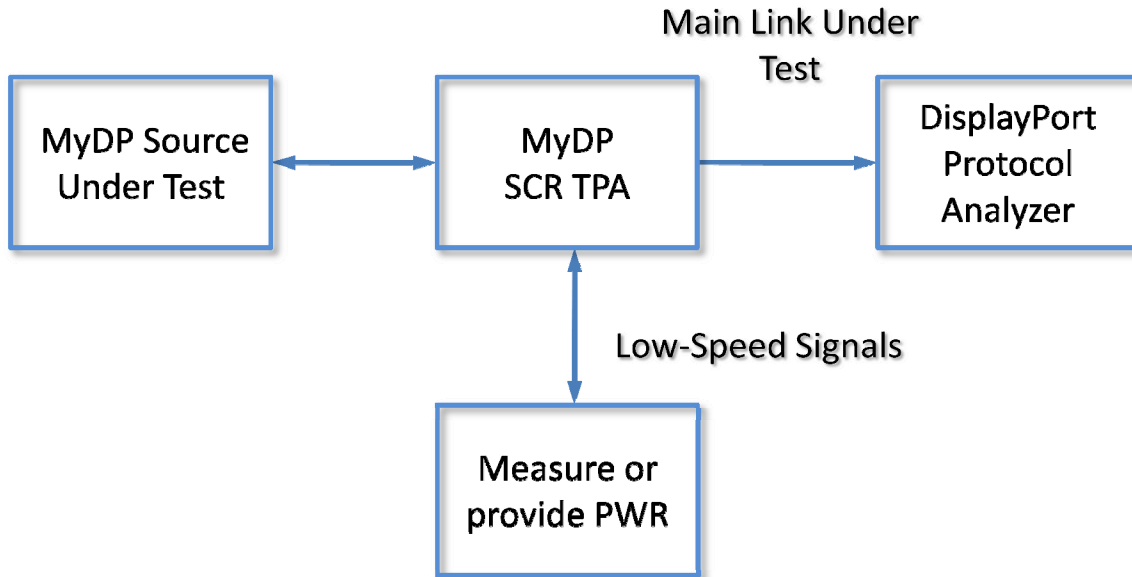


Figure 14. The MYDP-TPA-SCR as used in a Protocol Source test example

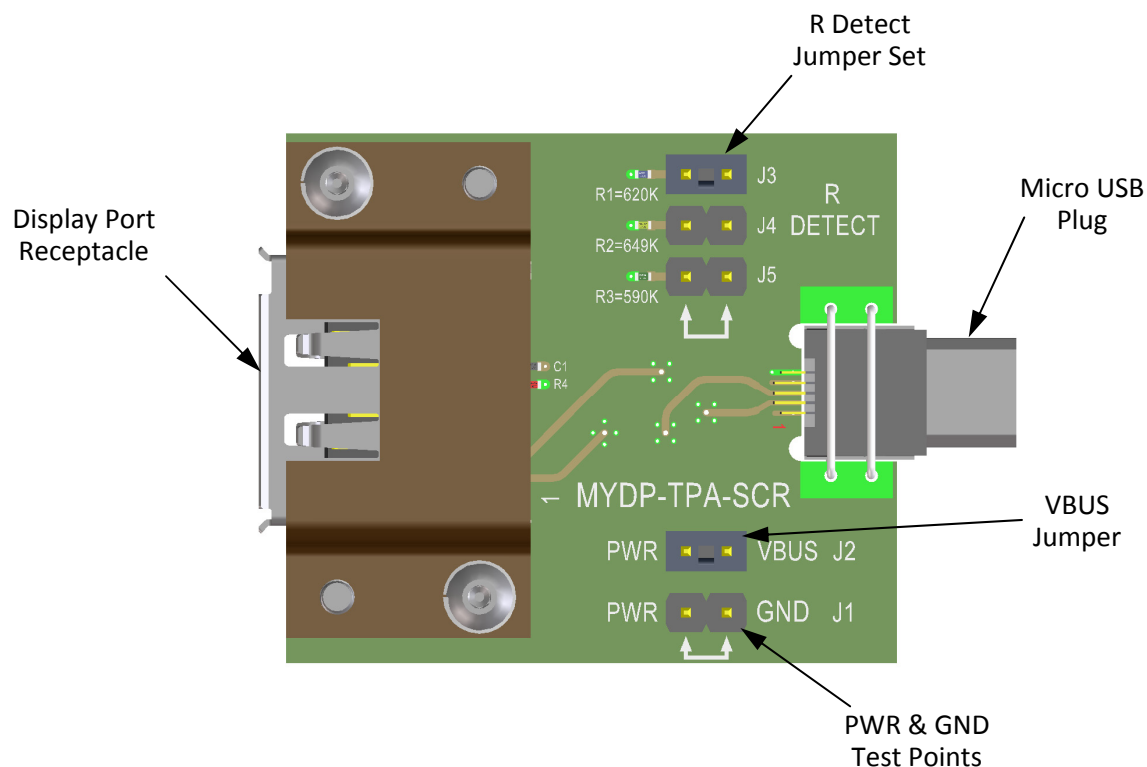
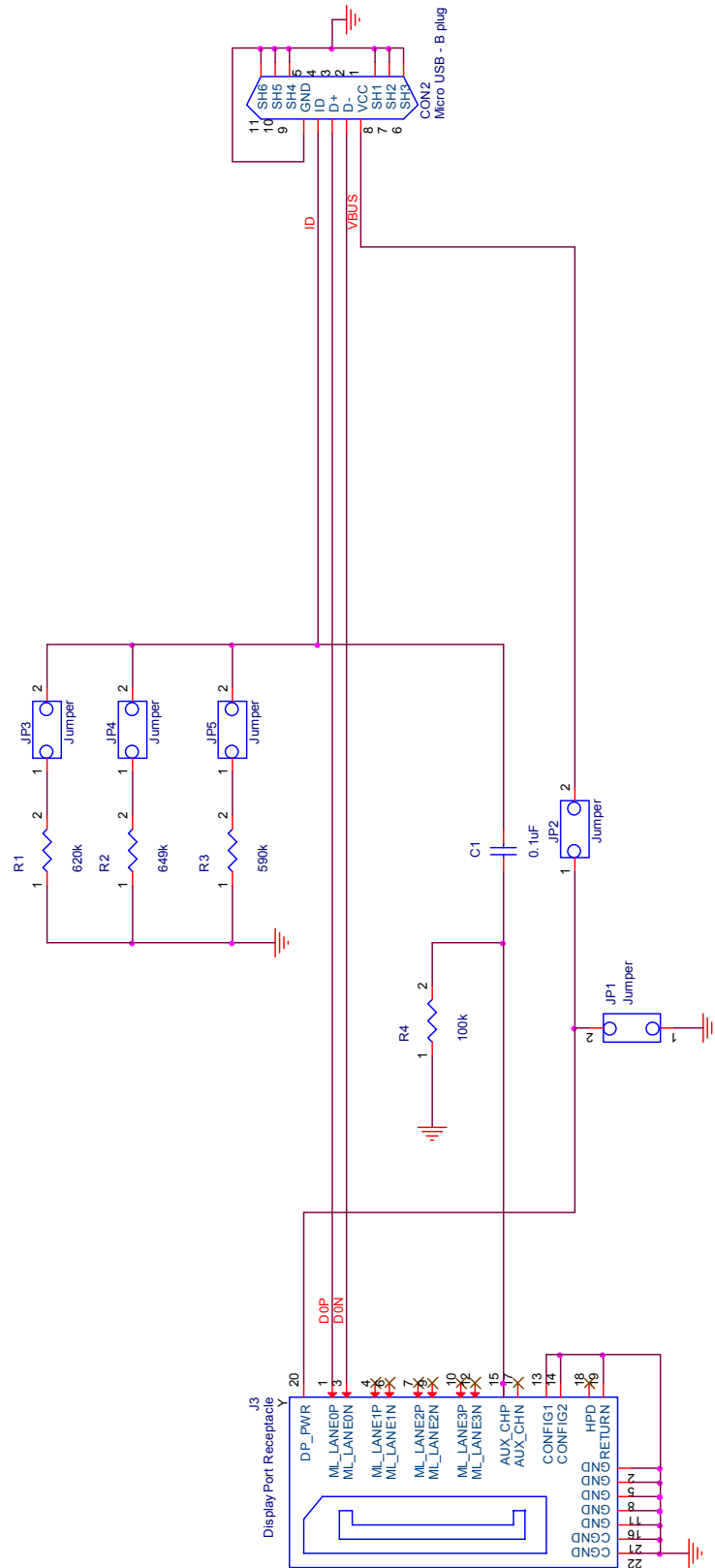


Figure 15. The MYDP-TPA-SCR

Table 4. Connections for the MYDP-TPA-SCR

DISPLAY PORT	SIGNAL IDENTIFICATION	uUSB PLUG	DESCRIPTION
Display Port pin 1	ML_Lane0(p) to D0P (Positive MyDP signal)	uUSB Plug pin 3	This is the signal from the based source.
Display Port pin 3	ML_Lane0(n) to D0N (Negative MyDP signal)	uUSB Plug pin 2	This is the signal from the based source.
Display Port pin 15	AUX_CHP	uUSB Plug pin 4	ID detection has JP3 (620K-GND) JP4 (649K-GND) JP5 (590K-GND), 100K pull down at DP
Display Port pin 20	DP_PWR	uUSB Plug pin 1	Jumper JP2-2, JP2-1 to Connect DP_PWR to VBUS (Default Position)
Display Port Shield and Pins 2,5,8,11,16,21,22	GND	uUSB Plug shield and pin 5	RF Ground

Figure 16. The MYDP-TPA-SCR Schematic



MyDP Dongle Testing:

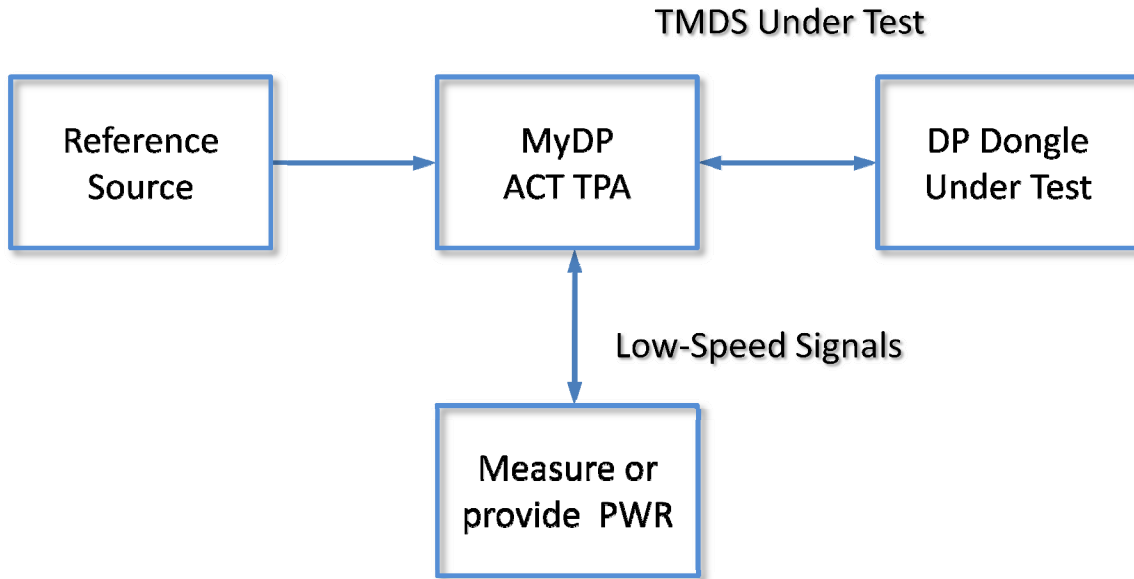


Figure 17. The MYDP-TPA-ACT as used in a Protocol Dongle test example

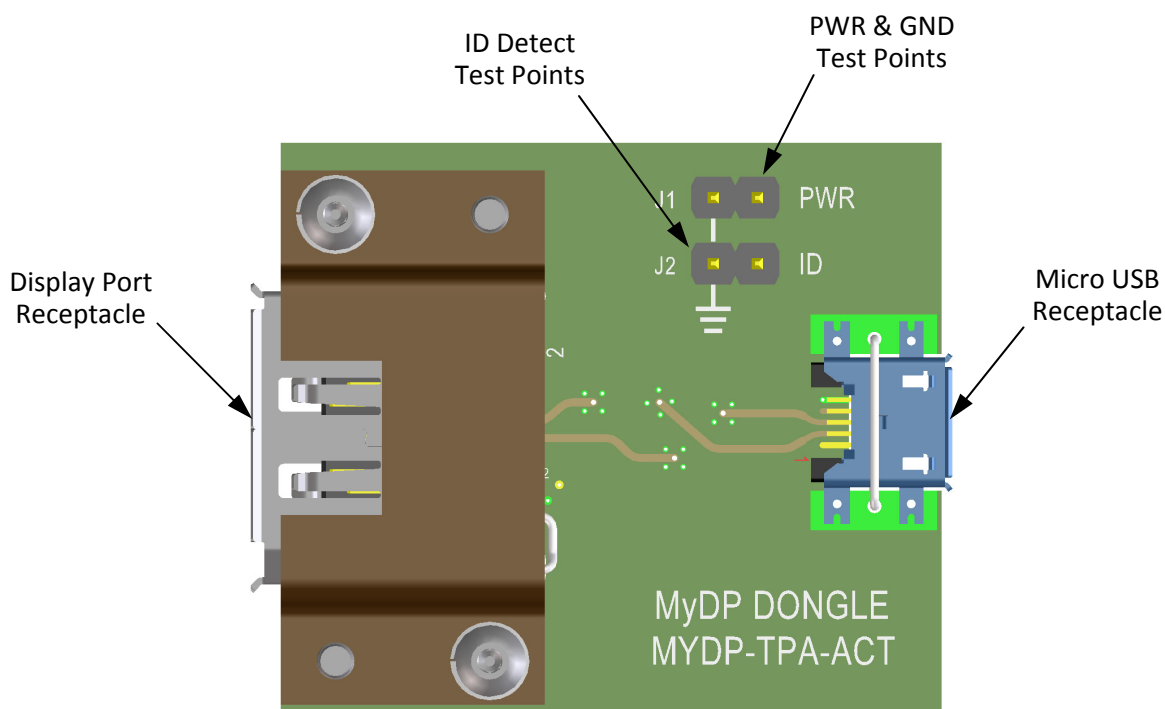
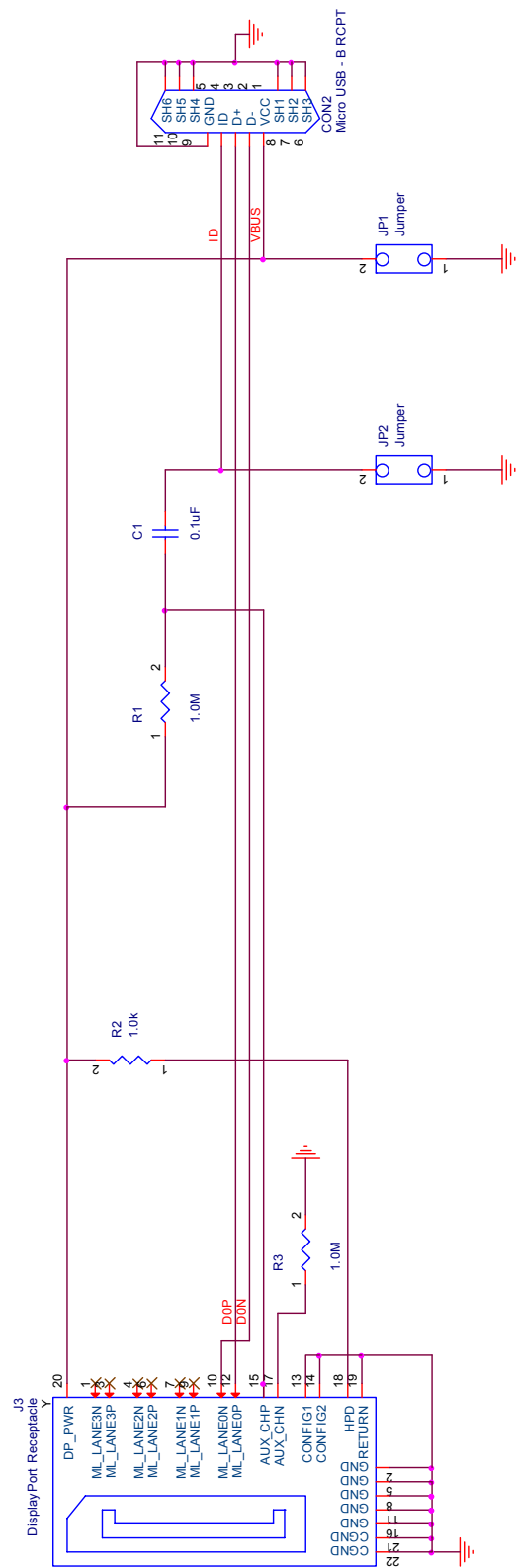


Figure 18. The MYDP-TPA-ACT

Table 5. Connections for the MYDP-TPA-ACT

DISPLAY PORT	SIGNAL IDENTIFICATION	uUSB RECEPTACLE	DESCRIPTION
Display Port pin 10	ML_Lane3(p) to DON (Negative MyDP signal)	uUSB receptacle pin 3	This is the signal from the based source.
Display Port pin 12	ML_Lane3(n) to DOP (Positive MyDP signal)	uUSB receptacle pin 2	This is the signal from the based source.
Display Port pin 15	AUX_CHP	uUSB receptacle pin 4	ID detection Jumper JP2 to GND, 1Meg pull up at DP
Display Port pin 17	AUX_CHN	NA	1 MEG pull down at DP
Display Port pin 18	HPD	NA	1.0K pull-up at DP
Display Port pin 20	DP_PWR/VBUS	receptacle pin 1	Jumper JP1 for measure or PWR provision
Display Port Shield and Pins 2,5,8,11,16,21,22	GND	uUSB receptacle shield and pin 5	RF Ground

Figure 19. The MYDP-TPA-ACT Schematic



Other Mechanical and Environmental Specifications

NOTE: All specifications in this manual are subject to change.

Table 6. General Specifications

ITEM	DESCRIPTION
Usage Environment	Controlled indoor environment
Operating Temperature	0°C to +55°C (32°F to +131°F) (Characteristic)
Storage Temperature	-40°C to +70°C (-40°F to +158°F) (Characteristic)

Wilder Technologies, LLC – Limited Warranty

Wilder Technologies, LLC warrants that each Test Adapter, 1) is free from defects in materials and workmanship and, 2) conforms to Wilder Technologies specifications for a period of 12 months. **See Consumable and Fragile Material Warranty for exceptions to the 12 month warranty**

The warranty period for a Test Adapter is a specified, fixed period commencing on the date of ship from Wilder Technologies, LLC. If you did not purchase your Test Adapter directly from Wilder Technologies, LLC, the serial number and a valid proof of purchase will be required to establish your purchase date. If you do not have a valid proof of purchase, the warranty period will be measured from the date of ship from Wilder Technologies, LLC.

If, during the warranty period, the Test Adapter is not in good working order, Wilder Technologies, LLC will, at its option, repair or replace it at no additional charge, except as is set forth below. In some cases, the replacement Test Adapter may not be new and may have been previously installed. Regardless of the Test Adapter's production status, Wilder Technologies, LLC appropriate warranty terms apply.

Consumable and Fragile Material Warranty

Wilder Technologies, LLC warrants that consumable materials and all fragile materials supplied by Wilder Technologies, LLC either as part of an instrument or system, or supplied separately, will be free from defects in material and workmanship at the time of shipment.

Extent of Warranty

The warranty does not cover the repair or exchange of a Test Adapter resulting from misuse, accident, modification, unsuitable physical or operating environment, improper maintenance by you, or failure caused by a product for which Wilder Technologies, LLC is not responsible. The warranty is voided by removal or alteration of Test Adapter or parts identification labels. The initial three months are unconditional; the remaining months excludes plugs, receptacles and SMA connectors. Connectors are wear items and excluded from the warranty after the initial three months.

These warranties are your exclusive warranties and replace all other warranties or conditions, express or implied, including but not limited to, the implied warranties or conditions or merchantability and fitness for a particular purpose. These warranties give you specific legal rights and you may also have other rights which vary from jurisdiction to jurisdiction. Some jurisdictions do not allow the exclusion or limitation of express or implied warranties, so the above exclusion or limitation may not apply to you. In that event, such warranties are limited in duration to the warranty period. No warranties apply after that period.

Items Not Covered by Warranty

Wilder Technologies, LLC does not warrant uninterrupted or error-free operation of a Test Adapter.

Any technical or other support provided for a Test Adapter under warranty, such as assistance via telephone with "how-to" questions and those regarding Test Adapter set-up and installation, will be provided **WITHOUT WARRANTIES OF ANY KIND**.

Warranty Service

Warranty service may be obtained from Wilder Technologies, LLC by returning a Wilder Technologies, LLC Returns Material Authorization and the Test Adapter to Wilder Technologies, LLC during the warranty period. To obtain RMA number, contact support@wilder-tech.com.

You may be required to present proof of purchase or other similar proof of warranty entitlement. You are responsible for any associated transportation charges, duties and insurance between you and Wilder Technologies, LLC. In all instances, you must ship Test Adapters in Wilder Technologies, LLC approved packaging. Information on packaging guidelines can be found at: www.wilder-tech.com. Wilder Technologies, LLC will ship repaired or replacement Test Adapter Delivery Duty Prepaid (DDP) and will pay for return shipment. You will receive title to the repaired or replacement Test Adapter and you will be the importer of record.

Wilder Technologies, LLC – Terms & Conditions of Sale

1. **Other Documents:** This Agreement may NOT be altered, supplemented, or amended by the use of any other document(s) unless otherwise agreed to in a written agreement signed by both you and Wilder Technologies, LLC. If you do not receive an invoice or acknowledgement in the mail, via e-mail, or with your Product, information about your purchase may be obtained at support@wilder-tech.com or by contacting your sales representative.
2. **Payment Terms, Orders, Quotes, Interest:** Terms of payment are within Wilder Technologies, LLC's sole discretion, and unless otherwise agreed to by Wilder Technologies, LLC, payment must be received by Wilder Technologies, LLC prior to Wilder Technologies, LLC's acceptance of an order. Payment for the products will be made by credit card, wire transfer, or some other prearranged payment method unless credit terms have been agreed to by Wilder Technologies, LLC. Invoices are due and payable within the time period noted on your invoice, measured from the date of the invoice. Wilder Technologies, LLC may invoice parts of an order separately. Your order is subject to cancellation by Wilder Technologies, LLC, in Wilder Technologies, LLC's sole discretion. Unless you and Wilder Technologies, LLC have agreed to a different discount, Wilder Technologies, LLC's standard pricing policy for Wilder Technologies, LLC-branded systems, which includes hardware, software and services in one discounted price, allocates the discount off list price applicable to the service portion of the system to be equal to the overall calculated percentage discount off list price on the entire system. Wilder Technologies, LLC is not responsible for pricing, typographical, or other errors in any offer by Wilder Technologies, LLC and reserves the right to cancel any orders resulting from such errors.
3. **Shipping Charges; Taxes; Title; Risk of Loss:** Shipping, handling, duties and tariffs are additional unless otherwise expressly indicated at the time of sale. Title to products passes from Wilder Technologies, LLC to Customer on shipment from Wilder Technologies, LLC's facility. Loss or damage that occurs during shipping by a carrier selected by Wilder Technologies, LLC is Wilder Technologies, LLC's responsibility. Loss or damage that occurs during shipping by a carrier selected by you is your responsibility. You must notify Wilder Technologies, LLC within 7 days of the date of your invoice or acknowledgement if you believe any part of your purchase is missing, wrong or damaged. Unless you provide Wilder Technologies, LLC with a valid and correct tax exemption certificate applicable to your purchase of Product and the Product ship-to location, you are responsible for sales and other taxes associated with the order. Shipping dates are estimates only.
4. **WARRANTY:** WILDER TECHNOLOGIES, LLC, warrants that the item(s) manufactured under the Buyer's contract shall be free from defects in materials and workmanship furnished by WILDER TECHNOLOGIES, LLC, and shall conform to the applicable drawings and specifications. WILDER TECHNOLOGIES, LLC'S liability herein, for breach of warranty, contract or negligence in manufacturing, shall be limited to repair or replacement. Repair or replacement of defective items will be applicable only if the Buyer notifies WILDER TECHNOLOGIES, LLC, by written notice within 30-days of delivery. All claims shall be addressed to: support@wilder-tech.com or WILDER TECHNOLOGIES, LLC, 6101A East 18th Street, Vancouver, Washington 98661 U.S.A.; ATTENTION: Customer Service Manager. WILDER TECHNOLOGIES, LLC, reserves the right to inspect at the Buyer's plant all items claimed to be defective or nonconforming prior to authorizing their return. WILDER TECHNOLOGIES, LLC, assumes no liability for the results of the use of its components in conjunction with other electric, electronic or mechanical components, circuits and/or systems. The foregoing constitutes the sole and exclusive remedy of the Buyer and the exclusive liability of WILDER TECHNOLOGIES, LLC, and is IN LIEU OF ANY AND ALL OTHER WARRANTIES, STATUTORY, IMPLIED OR EXPRESSED AS TO MERCHANTABILITY, FITNESS FOR THE PURPOSE SOLD, DESCRIPTION, QUALITY, and PRODUCTIVENESS OR ANY OTHER MATTER. Without limiting the foregoing, in no event shall WILDER TECHNOLOGIES, LLC, be liable for loss of use, profit or other collateral, or for special and/or consequential damages.
5. **RETURNED GOODS:** WILDER TECHNOLOGIES, LLC, will accept only those goods for return that have been authorized for return. All goods authorized for return shall be assigned a Returned Material Authorization (RMA) Number. The RMA Number shall be clearly marked on the shipping container(s) and all documentation accompanying the goods authorized for return. The RMA Number shall be assigned by WILDER TECHNOLOGIES, LLC pursuant to the conditions set forth in Paragraph 4, WARRANTY.
6. **UNITED STATES GOVERNMENT CONTRACTS:** In the event this offer is accepted under Government contract, WILDER TECHNOLOGIES, LLC, agrees to accept clauses required by Government regulations and to waive WILDER TECHNOLOGIES, LLC conditions inconsistent therewith. WILDER TECHNOLOGIES, LLC, certifies that it is a regular manufacturer or dealer of the goods and/or services offered herein and that the prices offered do not exceed those charged to any customer for like quantities, services or materials under the same conditions.

Compliance with Environmental Legislation

Wilder Technologies, LLC, is dedicated to complying with the requirements of all applicable environmental legislation and regulations, including appropriate recycling and/or disposal of our products.



WEEE Compliance Statement

The European Union adopted Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE), with requirements that went into effect August 13, 2005. WEEE is intended to reduce the disposal of waste from electrical and electronic equipment by establishing guidelines for prevention, reuse, recycling and recovery.

Wilder Technologies has practices and processes in place to conform to the requirements in this important Directive.

In support of our environmental goals, effective January 1st, 2009 Wilder Technologies, LLC has partnered with EG Metals Inc. – Metal and Electronics Recycling of Hillsboro, Oregon, www.egmetalrecycling.com, to recycle our obsolete and electronic waste in accordance with the European Union Directive 2002/96/EC on waste electrical and electronic equipment ("WEEE Directive").

As a service to our customers, Wilder Technologies is also available for managing the proper recycling and/or disposal of all Wilder Technologies products that have reached the end of their useful life. For further information and return instructions, contact support@wilder-tech.com.

Glossary of Terms

TERMINOLOGY	DEFINITION
Aggressor	A signal imposed on a system (i.e., cable assembly) to measure response on other signal carriers.
Cable	MyDP Cable with micro-USB connector on the source end and HDMI Type-A connector on the sink end.
Dongle	A protocol converter for conversion of MyDP (USB micro-B plug connector) to HDMI (Type-A receptacle connector).
MYDP-TPA	MyDP Test Point Access. A specialized assembly that interfaces to a MyDP receptacle or plug and enables access to signals for measurement or stimulation. Also allows access to VBus and CBus.
Informative	The designation of a test that is not required for compliance but is considered important from a characterization standpoint. It is provided for informational purposes only.
Normative	The designation of a test that is required for compliance.
RxSen	DC Parametric measurements
Sink Device	A device that contains A/V stream sinks for display and/or sound.
Source Device	A device that contains a stream source and originates an isochronous A/V stream.
Victim	A signal carrier on a system that has a response imposed on it by other signals in the system.

Index

- Active Protocol Convertor, 3
- Cable Bend Limits, 5
- Cable Tension (Pull Forces), 5
- Cable Twisting (Torque), 5
- Care and Handling, 5
- Cleaning, 7
- Compliance
 - WEEE, 30
- Compliance Test Specification, 3
- Connections
 - MYDP-TPA to DUT, 5
 - SMA, 6
- Electrostatic Discharge Information (ESD), 8
- ESD Protection, 8
- Glossary, 31
- Handling and Storage, 7
- Making Connections, 7
- Mechanical and Environmental Specifications, 27
- Method of Implementation, 3
- MyDP CTS PHY, 9
- MyDP Dongle Testing, 24
- MyDP Plug and Receptacle Electrical Specifications, 20
- MyDP Plug Test Set-up Example 1, 10
- MyDP Plug Test Set-up Example 2, 11
- MyDP Plug Testing, 9
- MyDP Receptacle Testing, 14
- MyDP Source, 3
- MyDP Source Testing, 21
- Product Inspection, 4
- Product Return, 4
- Secure Storage, 4
- Support, 29
- Supporting Instrument Cables, 6
- Tables
 - Connections, MYDP-TPA-ACT, 25
 - Connections, MYDP-TPA-P, 12
 - Connections, MYDP-TPA-R, 15
 - Connections, MYDP-TPA-SCR, 22
 - Electrical Specifications, MYDP-TPA-P to MYDP-TPA-R Connection, 20
 - General Specifications, 27
- Terms and Conditions of Sale, 29
- Visual Inspection, 7
- Warranty, 28
- Web Sites
 - support@wilder-tech.com, 28, 29
 - www.egmetalrecycling.com, 30
 - www.wilder-tech.com, 28
- WEEE, 30

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