



**THE DATASHEET OF
GSB4112312HR**



2014 USB3.1, SUPERSPEED+,
Solutions In
Amphenol-Taiwan



Prepared by Max Chang

20140210

Amphenol TCS

Your global connection for innovative technologies



AMTA – USB SUPERSPEED USB 3.1 Product

Delivers 10 Gbps USB data rate

* 2x SuperSpeed USB 5Gbps data rate

Improved efficient data transfer and I/O power efficiency

Works and Backward compatible with existing

USB 3.0 and USB2.0

Fast Sync-N-Go

Structures & Materials change can meet 10Gbps request.

Below models pass SI testing.

•DUT Samples:

Plug:

STD-A

STD-A SMT Type (Fixture Rev.C)

Receptacle:

STD-A R/A (Fixture Rev.C)

STD-A V/T -(R/A Fixture Rev.C)

STD-A Stacked (Fixture Rev.A)

STD-A Up Right (Fixture Rev.C)

STD-B (Fixture Rev.C)

Micro-B High Rise (Fixture Rev.B)



Amphenol-Taiwan SuperSpeed Action

- Terminal design and Housing and optimization.
- Changing housing materials to meet the factors of super requirements.

➢ **USB3.1 parts in Amphenol Gbps and respect to USB**

USB 3.1 – Markets / Products

NAS



Mobile storage



Automotive /GPS &AV



Smart TV



Telepresence Device



Tablet PC



Health care



Game Console



Mobile Phone



POS System



Portable media player



Universal Serial Bus
variety of existing
interface with hot-plug
capabilities and increased
serial I/O throughput for

DSC



Set Top Boxes



Industrial PC



Amphenol Provides the

The standard 'A' and reverse Series of receptacles, angle, Upright, Sink, single and stacked dual-plug. The range of standard Series 'B' connectors, right angle and cable plug version receptacles. The range of micro USB 'B' connectors include through hole option, and High-rise(stand off) design.

AMTA- USB 3.1 Pro SUPERSPEED + A Receptacle Typical Type

Features & Benefits

Halogen Free

RoHS Compliance

- USB3.0 A type Compatible with USB3.0 & 2.0, and both
- Existing 5 Gbps USB3.0 and new 10 Gbps USB3.1 specification compliance.
- 5 metal friction lock grounding fingers and Polarization plastic
- Design ensure plug retention.
- Rugged Gold-plated leaf contact withstand up to 5000 cycles.
- High temperature plastic for SMT process and Halogen Free solution.
- Full metal shielding for EMI / RFI / ESD protection.

Standard A



GSB411131HR

A Up Right



GSB411631

A Vertical



GSB412137CHR

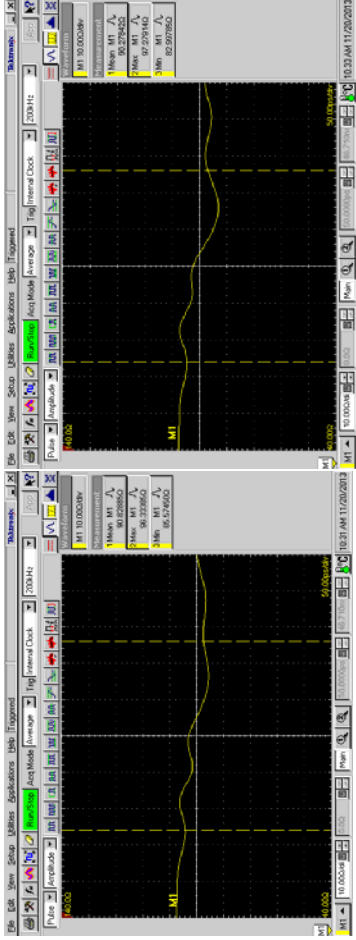
STACK A



GSB411231

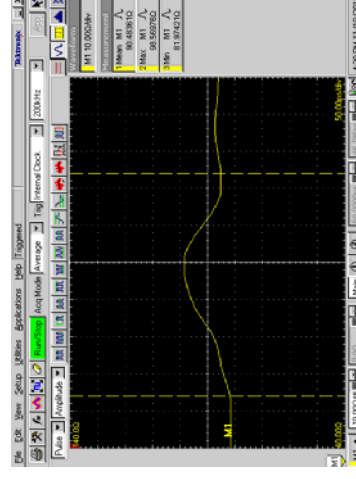
Receptacle A

SS TX - Passed



Receptacle A Stack

SS TX - Passed



AMTA- USB 3.1 Product Overview

USB SUPERSPEED PLUS A plug Typical Types

Features & Benefits **Halogen Free**

RoHS Compliance

- Fully compliant with USB2.0 & 3.0 specification
- Rugged Gold-plated leaf contact withstand up to 5000 cycles .
- process and Halogen Free solution.
- High temperature plastic for SMT process and Halogen Free solution.
- Full metal shielding for EMI / RFI / ESD protection.
- Application for Board to Board and wire to Board use

Plug A SMT



GSB416445CHR

Plug A Cabl



GSB417131H

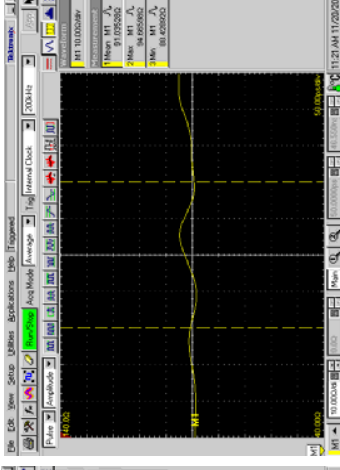
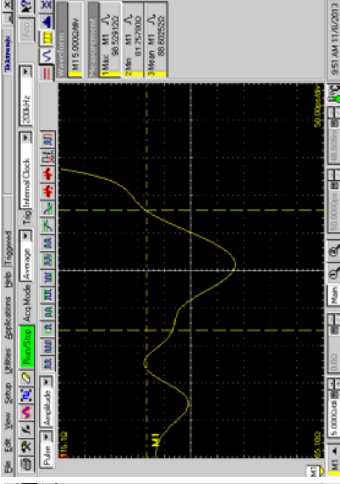
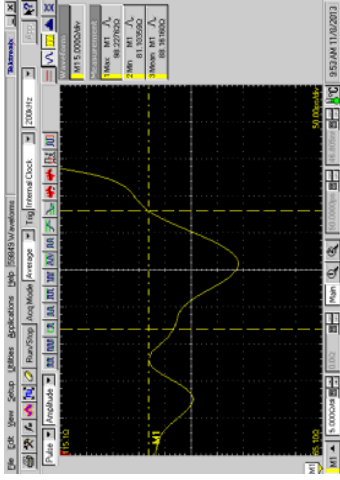
A Plug

A Plug SMT

SS TX - Passed

SS RX - Passed

SS TX - Passed



AMTA- USB 3.1 Pro SUPERSPEED + B Receptacle Typical Type

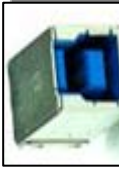
Features & Benefits

Halogen Free

RoHS Compliance

- USB3.0, B type Compatible with USB3.0 & 2.0, and both
- Existing 5 Gbps USB3.0 and new 10 Gbps USB3.1 specification compliance.
- 5 metal friction lock grounding fingers and Polarization plastic
- Design ensure plug retention.
- Rugged Gold-plated leaf contact withstand up to 5000 cycles.
- High temperature plastic for SMT process and Halogen Free solution.
- Full metal shielding for EMI / RFI / ESD protection.

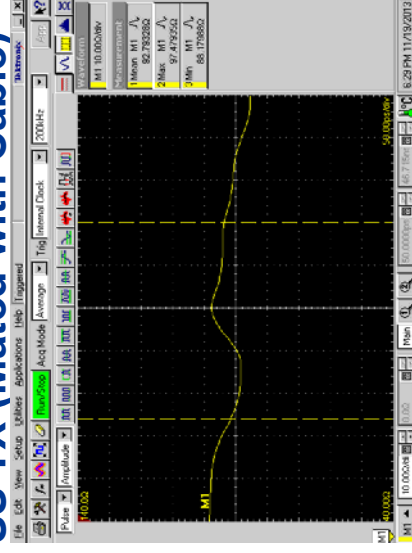
Standard B



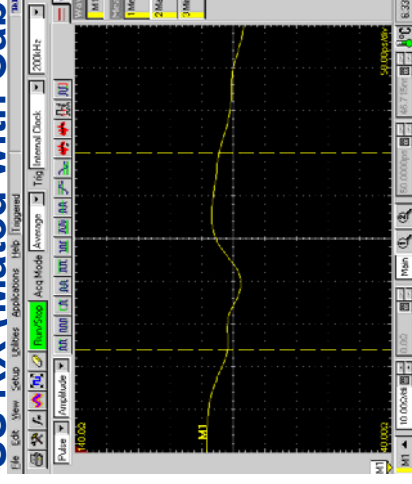
GSB4211311WEU

Receptacle B

SS TX (Mated with Cable) - Passed



SS RX (Mated with Cab



AMTA- USB 3.1 Product

SUPERSPEED + microB Receptacle Typical Type

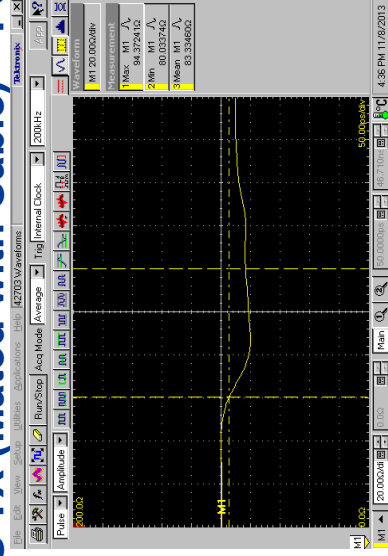
Features & Benefits

Halogen Free
RoHS Compliance

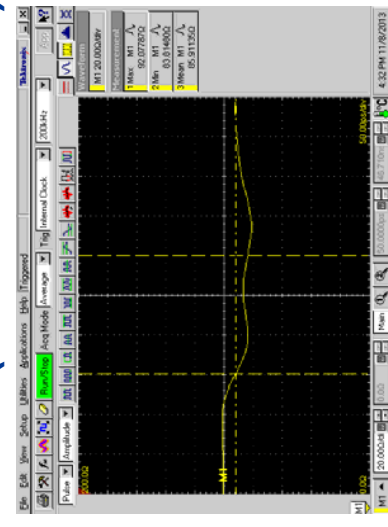
- USB3.1 Micro B type- Up to 10 Gbps data rate with USB3.1 standard compliance. Compatible with USB3.0 & 2.0.
- Stable signal transmission.
- Materials use for lead-free reflow process, Halogen Free , and RoHS.
- 6 Soldered Pads at shell ensure No Damage when: Peel Strength 150N Min applied. Wrenching Strength 25N Max applied .
- Greater real estate space savings.
- Reliable Co-planarity within a 0.08mm .
- Full metal shielding for EMI / RFI / ESD protection.
- Rugged Gold-plated leaf contact withstand up to 10,000 cycles.

Receptacle MicroB

SS TX (Mated with Cable) – Passed



SS RX (Mated with Cable)



Micro B High Rise



GSB443T33HR

Plug A SMT

Micro B type S

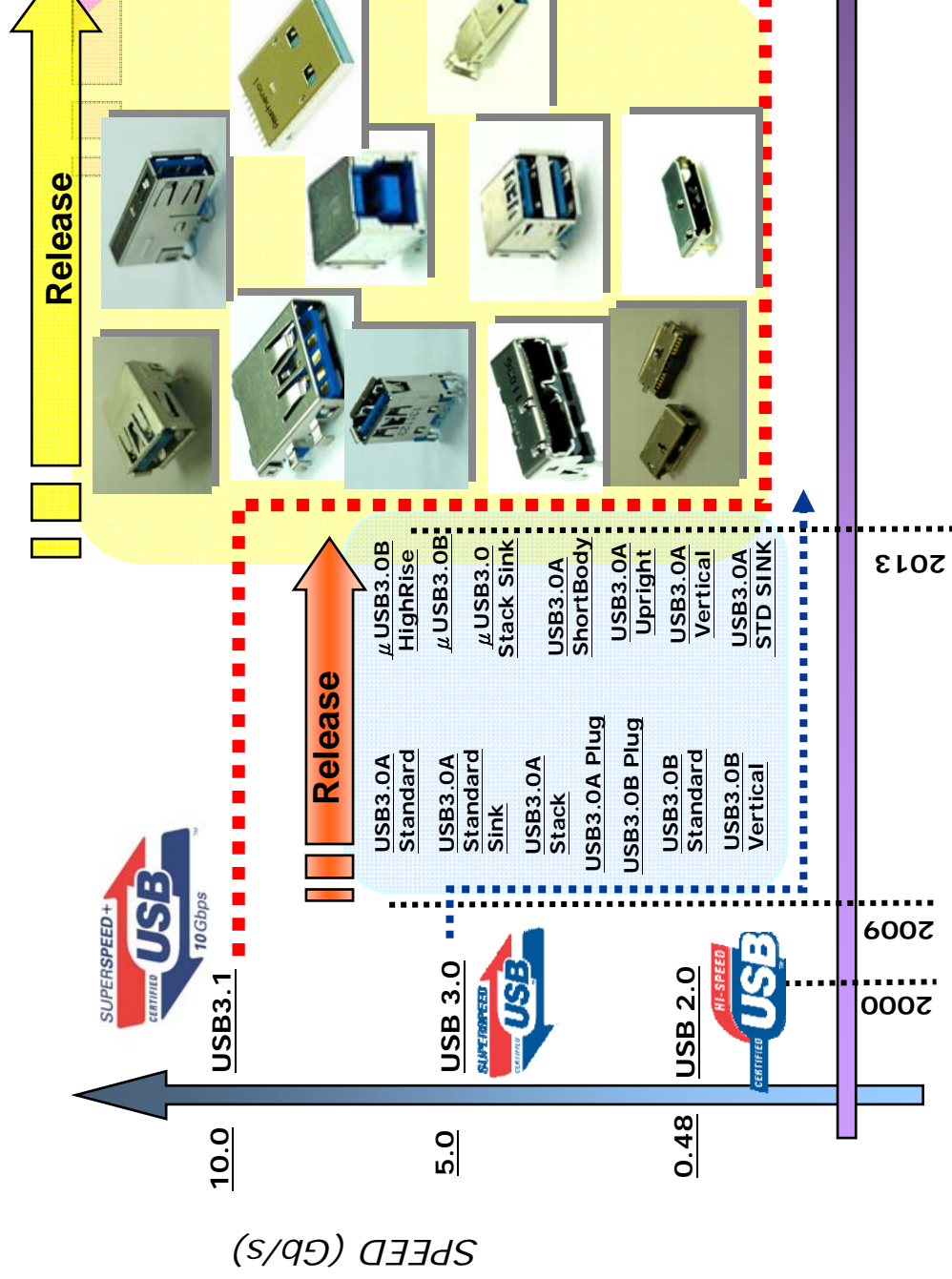


GSB443133HR

Plug A Cable

USB3.1, SUPERSPEED+ Part no



USB Certification milestone , and AMTA 2014 developing Plan.



Thank you for the attention

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View GSB4112312HR on WIN SOURCE](#)
-  [Amphenol Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management