



**THE DATASHEET OF  
GSB443133HR**



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

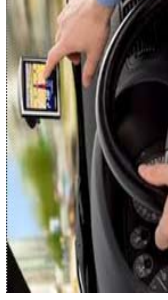
NAS



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 Product 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

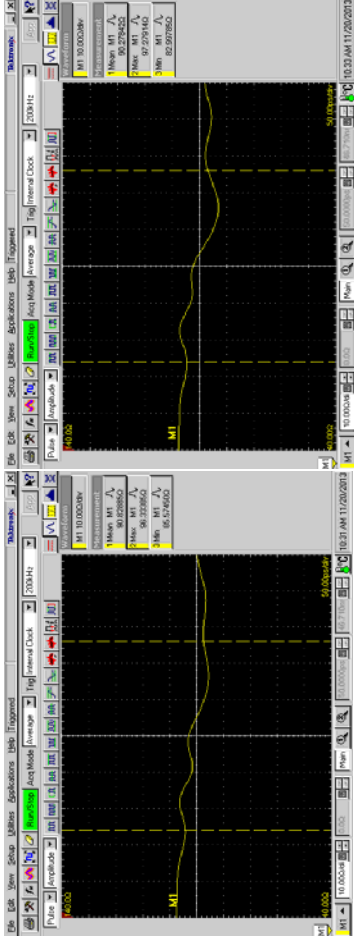
STACK A



GSB411231

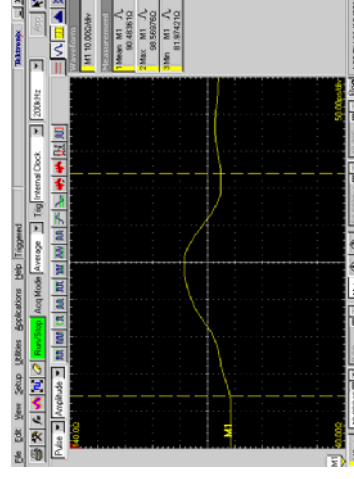
## Receptacle A

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

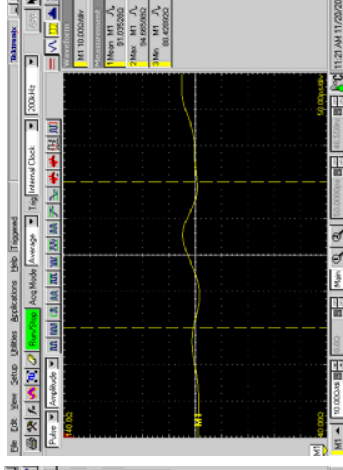
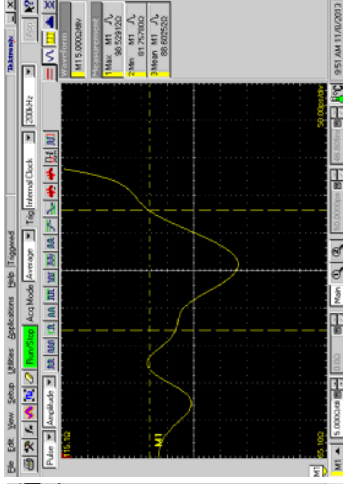
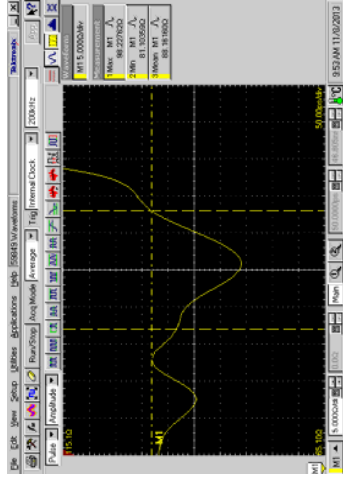
### A Plug

#### A Plug SMT

#### SS TX - Passed

#### SS RX - Passed

#### SS TX - Passed



# AMTA- USB 3.1 Pro SUPERSPEED + B Receptacle Typical Type

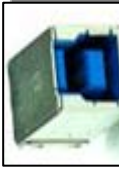
## Features & Benefits

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.

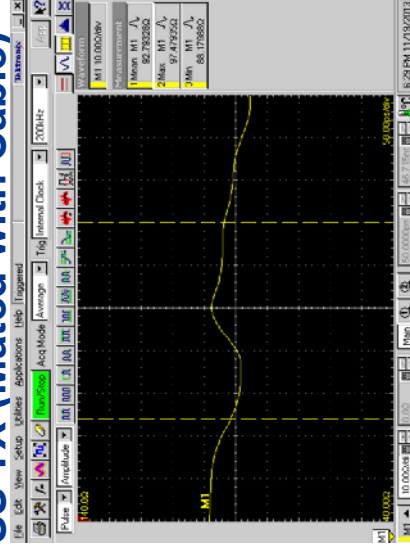
Standard B



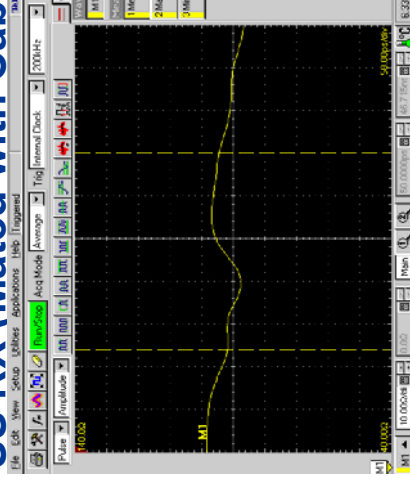
GSB4211311WEU

## 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

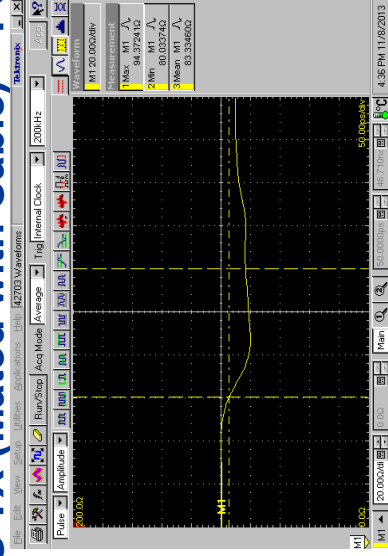
**Halogen Free**

**RoHS Compliance**

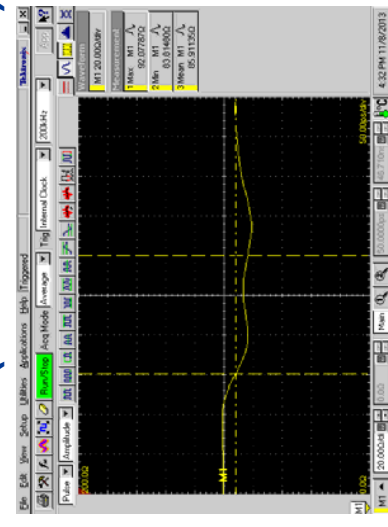
- USB3.1 Micro B type- Up to 10 Gbps data rate with USB3.1 standard compliance. Compatible with USB3.0 & 2.0.
- Stable signal transmission.
- Materials use for lead-free reflow process, Halogen Free , and RoHS.
- 6 Soldered Pads at shell ensure No Damage when: Peel Strength 150N Min applied. Wrenching 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



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Plug A SMT

Micro B type S

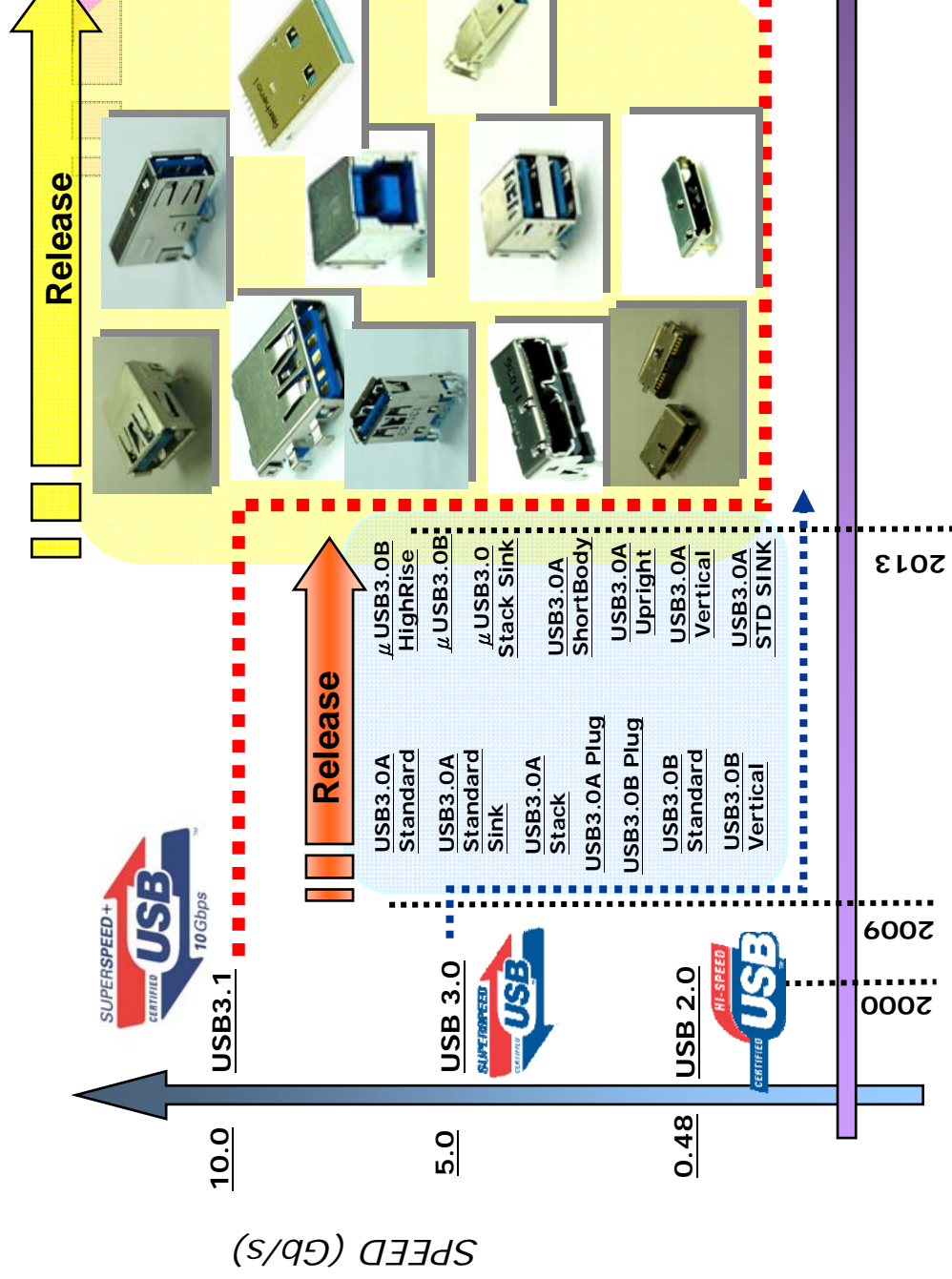


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Plug A Cable

# USB3.1, SUPERSPEED+ Part no



USB Certification milestone , and AMTA 2014 developing Plan.



**Thank you for the attention**

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