

USB 3.1 Gen 1 Type C Connector

Product Presentation

Amphenol Information Communications
and Commercial Products

 ***FCi Basics***

Amphenol ICC

USB 3.1 Gen 1 Type C Connector

Value Proposition

- The USB 3.1 Type-C is the evolution of the 3.0 and is the new standard plug and receptacle performing with High-speed 5Gbps
- Thanks to the Amphenol research the USB 3.1 Type-C providing a USB multifunction single cable solution for power and audio & video
- The USB 3.1 is designed to be reversible in mating orientations for the plug for quick and easy mating insertions
- The small and compact design made this interconnection the unquestioned connection technology across all devices of the future

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Product Overview

**RECEPTACLE – R/A TOP
MOUNT SMT+DIP - LONG
SHELL**



**RECEPTACLE – R/A TOP
MOUNT SMT+DIP - SHORT
SHELL**



**RECEPTACLE – R/A TOP
MOUNT SMT+DIP –
ANGLED ENTRANCE**



**RECEPTACLE – R/A TOP
MOUNT SMT+DIP – SHORT
BODY**



**RECEPTACLE – R/A MID
MOUNT DUAL - SHORT
BODY**



**RECEPTACLE – R/A TOP
MOUNT DUAL SMT SHORT
BODY**



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Product Specifications (1/2)

- Product Facts
 - Transfer SuperSpeed up to 5 Gbps
 - Reversible
 - Minimizes user waiting-time
 - RoHS compliant, Lead-Free, Halogen-Free
- Electrical Performance
 - Low Level Contact Resistance:
 - Initial 40mΩ max. / After 50mΩ max.
 - Insulation Resistance: 100MΩ min.
 - Voltage Rating: 100VAC/DC
 - Current Rating:
 - 5.0A for VBUS and GND.
 - 1.25A for Vconn and GND.
 - 0.25A for all the others contacts
 - Dielectric Withstand Voltage: 100 Vac

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Product Specifications (2/2)

- Mechanical Performances
 - Durability: 10,000 cycles.
 - Mating Force: 5~20N
 - Unmating Force:
 - 8~20N for 1~1000 cycles
 - 6~20N for 1001~10000 cycles
- Packaging
 - Receptacle: Tape and Reel
 - Plug: Tray
- Environmental
 - Operating Temperature: -55 ~ +85°C
- Materials
 - Housing: High temperature thermoplastic
 - Terminal: Copper Alloy
- Specifications
 - Product Specification: GS-12-1336
 - Package Specification: GS-14-2487

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Features & Benefits

Features	Benefits
<ul style="list-style-type: none">▪ Robust and Small Design	<ul style="list-style-type: none">▪ Tailored for Laptops and Tablets and Slim enough for being used where you don't have space (example Mobile Phone)
<ul style="list-style-type: none">▪ Reversible	<ul style="list-style-type: none">▪ Easy and Quick usage
<ul style="list-style-type: none">▪ Higher Speed up to 5Gbps	<ul style="list-style-type: none">▪ Minimizes the user waiting and Ready for the next generation applications
<ul style="list-style-type: none">▪ EMI shielding design	<ul style="list-style-type: none">▪ EMI/ESD protection
<ul style="list-style-type: none">▪ Available in Right-Angle dual SMT and Hybrid styles, Top and Mid Mount solution	<ul style="list-style-type: none">▪ Flexible Solution
<ul style="list-style-type: none">▪ Rohs Compliant, Lead-Free, Halogen-Free	<ul style="list-style-type: none">▪ Meets environmental, health and safety requirements

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Main Markets & Applications

- Consumer
 - Smartphone
 - Portable Game Station
 - LCD TV Panel
- Industrial and Instrumentation
 - Tester
 - Business Equipment
 - Industrial Tablet
- Data
 - Notebook
 - Ultrabook
 - Tablets
 - Wearable Devices



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Part Numbers & Drawings

Product Description	Amphenol P/N	Photo
Receptacle Connector, Right Angle Top Mount SMT + DIP (Long Shell)	10137060	
Receptacle Connector, Right Angle Top Mount SMT + DIP (Short Shell)	10137061	
Receptacle Connector, Right Angle Top Mount SMT + DIP (Short Body)	10137062	
Receptacle Connector, Right Angle Mid Mount SMT (Short Body)	10137064	
Receptacle Connector, Right Angle Top Mount SMT (Short Body)	10137065	
Receptacle Connector, Right Angle Top Mount SMT + DIP (Angled Entrance)	10137066	

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Thank You