

USB 2.0 – GSB1X & GSB2X Series

COMPLIANT TO USB 2.0 SPECIFICATIONS; IDEAL FOR SERVER APPLICATIONS

Amphenol ICC USB 2.0 Connector was developed to integrate a variety of existing PC I/O ports into a single interface with hot-plugging and automatic configuration capabilities. It enables increased bandwidth to enhance serial I/O throughput for a wide range of peripherals. USB 2.0 connectors offer a stable signal data transmission up to 480Mb/s. With 4 circuits, it is available in through-hole and SMT options to suit various applications.

USB 2.0 is also featured with metal friction-lock grounding fingers and polarization plastic, which supports snap-in-catch operations.

- Supports up to 480Mb/s data transmission
- USB 2.0 specification compliance
- 4 circuits, through hole and SMT options available
- Full shielding capabilities



TARGET MARKETS



FEATURES

- High speed signal stability up to 480Mb/s
- 4 positions, USB 2.0 specification compliance
- DIP option for shell application
- Terminal design enables high and reliable contact force
- Optimized design on shell structure
- Rugged gold-plated leaf contact design
- Metal friction lock grounding fingers and polarization plastic
- Halogen-free housing material

BENEFITS

- Superior terminal and shell spring design for high durability
- Suitable for a wide variety of standard application
- Reliable mounting performance on PCB
- Provides superior electrical performance for low contact resistance
- Full metal shielding protects against EMI (Electromagnetic Interference)/ RFI (Radio-Frequency interference) / ESD (Electromagnetic Discharge)
- Improves contact resistance and prevents corrosion
- Plug operation includes a snap in catch with tactile feedback ensuring an easy connection
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic, complies with UL 94V-0, Optional Colour
- Contact: Copper alloy, 0.2mm thickness, Selective gold plated on contact area, 100u” min. matte tin plated on soldering tail, 50u” min. nickel under-plated overall
- Shell: Optional SPCC, Stainless Steel, Copper Alloy

MECHANICAL PERFORMANCE

- Insertion Force: 35N (3.57 Kgf) max.
- Withdrawal Force: 10N (1.02 Kgf) min.
- Durability: 1500 mating/unmating cycles
- Vibration: No disturbance greater than 1µs
- Mechanical Shock: No disturbance greater than 1µs

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance:
 - Initial: 30mΩ max.
 - Final ΔR: 20mΩ max..
- Insulation: 1000mΩ min.
- Voltage Rating: 30 V DC
- Current Rating at T30°C max.: 1.5A max. per contact

SPECIFICATION

- Amphenol Product Specification: PS-7329

PACKAGING

- Tape and Reel
- Tray

ENVIRONMENTAL

- Operating Temperature: -40°C to +85°C
- Shipping and Storage Temperature: -20°C to +60°C
- Thermal Shock: No physical damage
- Cyclic Temperature Humidity: No physical damage
- Temperature Life: No physical damage
- Solderability: 95% of immersed area must show no voids, pin holes
- Soldering Heat: No physical damage

TARGET MARKETS/APPLICATIONS



Test Card and Card Extenders
Telecommunication/Datacom
equipment



Gaming
IP Phone
Set Top Box



High End Computers
HDD
Routers
Servers



Test and Measurement Equipment

PART NUMBERS

Description	Orientation	Pins	Application	Tail Pin Length (mm)	Part Numbers
Type A, Receptacle	Right Angle	4	DIP	2.5	GSB121XXRSKEU
Type A, Receptacle	Right Angle	4	DIP	3.3	GSB121XX03XEU
Type A, Receptacle	Right Angle	4	DIP	2.2	GSB121X1HP1HR
Type A, Receptacle	Right Angle	4	DIP	2.6	GSB121XXRSKXHR
Type A, Receptacle	Right Angle	4	DIP	3.05	GSB12BXXPEU
Type A, Receptacle	Right Angle	4	SMT	-	GSB141XXP1EU
Type A, Receptacle	Right Angle	4	SMT	-	GSB141XXP3EU
Type A, Receptacle	Right Angle, Stacked	8	DIP	3.18	GSB122XXP1EU
Type A, Receptacle	Right Angle, Stacked	8	DIP	2.7	GSB122XXXRSEU
Type A, Receptacle	Right Angle, Stacked	8	DIP	2.7	GSB122XXXEU
Type A, Receptacle	Right Angle, Stacked	8	DIP	2.7	GSB122X1XFRSEU
Type A, Receptacle	Right Angle, Stacked	8	DIP	2.7	GSB122XXXFRSPEU
Type A, Receptacle	Right Angle, Stacked	8	DIP	3.18	GSB122XXXP2EU
Type A, Receptacle	Right Angle Sink	4	DIP	3.3	GSB125XXXF1HR
Type A, Receptacle	Right Angle Sink	4	DIP	3.3	GSB125XXXFHR
Type A, Receptacle	Right Angle Sink	4	DIP	2	GSB1262XXA1EU
Type A, Receptacle	Right Angle Sink	4	DIP	1.8	GSB126X1C1EU
Type A, Receptacle	Reverse Right Angle Sink	4	DIP	2.4	GSB12J21C1EU
Type A, Receptacle	Right Angle Sink	4	SMT	-	GSB146XXXPEU
Type A, Receptacle	Upright	4	DIP	2.4	GSB191XXXKEU
Type A, Receptacle	Upright	4	DIP	2.4	GSB191XXKHR
Type A, Receptacle	Upright	4	DIP	4.4	GSB1912X6FHR
Type A, Receptacle	Upright	4	DIP	2.4	GSB191XXCEU
Type A, Receptacle	Upright	4	DIP	2.4	GSB191XXTPXEU
Type A, Receptacle	Vertical	4	DIP	2.7	GSB111XXKEU
Type A, Receptacle	Vertical	4	DIP	2.7	GSB111X4KEU
Type B, Receptacle	Vertical	4	DIP	3.4	GSB211XXXPEU
Type B, Receptacle	Right Angle	4	DIP	2.55	GSB221X0RSKEU
Type B, Receptacle	Right Angle	4	SMT	-	GSB241XXXXEU