

## 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