

BergStak® Secure Connector

HIGH SECURITY/HIGH DENSITY/ HIGH SPEED BOARD-TO-BOARD CONNECTOR

The BergStak® Secure connector contains One-time-use and Multi-times-use solutions. Both solutions have unique shield design to protect signal transmission. The 3 row contact design with 1.0mm pitch improves board surface utilization by 20%. The family can support high-speed data transmission up to 32Gb/s.

- EMI Shielding protects signals
- 3 row contact design with 37 position per row to achieve the space-saving solution
- Dual-beam receptacle contacts ensure more reliable connection
- Blind-mating feature benefits to mating process
- Modular design to support maximum 3 sets using together on one board

FEATURES

- EMI Shielding
- High speed performance up to 32Gb/s
- Dual-beam receptacle contacts
- Blind-mating feature
- Modular design
- One-Time-Use option contains tamper-resistant screw and terminal & shield lock feature



TARGET MARKETS



BENEFITS

- Excellent protection of signals, no possible to probe. Suitable for the applications which need signal security
- Can be used in high-end computing and signal transfer applications in data communication telecommunication, computing, medical technology and industrial automation segments
- Provides high electrical reliability and withstands high level of vibration
- Suit for those tasks where visual and tactile tools are compromised during mating process
- Support maximum 3 sets using together on one board, 333 pins per board
- These optional secure features ensure un-mating action can destroy the connection. Suitable for applications where security is a top priority

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic LCP, black (UL94V-0)
- Terminal: Copper alloy, high spring
- Plating: Gold / GXT on contact area, and tin plating on soldering tail

ELECTRICAL PERFORMANCE

- Current Rating: 1A per contact; 10A per shield
- Insulation Resistance: $1 \times 10^{10} \Omega$ min.
- Voltage Rating: 100V AC
- LLCR: 40 m Ω Maximum
- Data rate: up to 32Gbps

MECHANICAL PERFORMANCE

- Mating and Un-mating Force: 1N max./contact
- Durability: 200 cycles for Multi-times-Use Option
- Mechanical Shock and Vibration: USCAR-2 V2

ENVIRONMENTAL

- Operating Temperature: -55°C to +105°C
- Mixed Flowing Gas corrosion: IEC 60512-11-7, Class -IIA

APPROVALS AND CERTIFICATIONS

- UL E66906

SPECIFICATIONS

- Product Specification: GS-12-1607

PACKAGING

- Tape & Reel

TARGET MARKETS/APPLICATIONS



Server/Storage



Factory Automation



BBU

PART NUMBER

Description	Series
BergStak® Secure Connector, Right Angle Header, 3x37positions, Multi-times use, Left Screw hole, Left Guide	10160298-1111011LF
BergStak® Secure Connector, Right Angle Header, 3x37positions, Multi-times use	10160298-1111000LF
BergStak® Secure Connector, Right Angle Header, 3x37positions, Multi-times use, Right Guide	10160298-1111002LF
BergStak® Secure Connector, Right Angle Header, 3x37positions, One-time use, Left Screw hole, Left Guide	10160298-1111111LF
BergStak® Secure Connector, Right Angle Header, 3x37positions, One-time use	10160298-1111100LF
BergStak® Secure Connector, Right Angle Header, 3x37positions, One-time use, Right Guide	10160298-1111102LF
BergStak® Secure Connector, Vertical Receptacle, 3x37positions, Left Guide	10160299-1111001LF
BergStak® Secure Connector, Vertical Receptacle, 3x37positions	10160299-1111000LF
BergStak® Secure Connector, Vertical Receptacle, 3x37positions, Right Guide	10160299-1111002LF

PART NUMBER SELECTOR

