VersaLink Bridge: bypass high-loss board traces with a low insertion-loss and low signal-latency point-to-point Twinax jumper

High-speed data transmission from one PCB to another, from one side of a backplane to another, or even from one side of a complex embedded system to another, is frequently accomplished by routing high-speed traces on a dedicated high-speed signal layer. This is a complex assignment—fraught with potential for impedance discontinuities and unacceptable insertion loss—as traces must navigate difficult and/or long routing paths around via columns and other board irregularities. The Glenair VersaLink Bridge is a high-density, microform factor twinax connector / jumper assembly used to bridge the gap between point A and point B on the board (such as between two SML integrated circuit chips) with better signal integrity than native board traces can ever deliver. VersaLink Bridge is equally capable of dramatically reducing insertion loss and signal latencies for data traffic between an ASIC and the I/O.

VERSALINK BRIDGE FEATURES
- Small footprint, high-density solution
- Versatile solder-mount or screw-mount board termination
- 100 Ohm differential Twinax
- Push-pull mating or bayonet-lock for high vibration and shock applications
- Keyed polarization prevents mis-mating
- Low insertion loss and low signal latencies for high datarate board transmissions
HIGH-SPEED
VersaLink™ Bridge
Differential Twinax “bypass” connector and jumper assemblies

AVAILABLE CONFIGURATIONS: QUICK-DISCONNECT

<table>
<thead>
<tr>
<th>Quick-disconnect plug</th>
<th>QDC Jack board pin straight screw mount</th>
<th>QDC Jack board pin straight solder mount</th>
<th>QDC Jack board pin right-angle screw mount</th>
<th>QDC Jack board pin right-angle solder mount</th>
</tr>
</thead>
</table>

AVAILABLE CONFIGURATIONS: BAYONET-LOCK

<table>
<thead>
<tr>
<th>Bayonet-lock plug</th>
<th>Bayonet-lock Jack board pin straight screw mount</th>
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</tr>
</thead>
</table>

Recommended Cable for Plug Connectors

<table>
<thead>
<tr>
<th>Cable P/N</th>
<th>Cable Construction</th>
<th>Wire Gauge</th>
<th>Impedance</th>
<th>Max. Overall Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>963-043-26</td>
<td>Twinax In-Line</td>
<td>26</td>
<td>100 Ω</td>
<td>.121&quot; X .076&quot;</td>
</tr>
</tbody>
</table>

MATERIALS AND FINISHES

Contacts: Copper alloy / gold
Insulators: Superior rigid dielectric
Body: Copper alloy / gold
Ferrules (plugs): Copper alloy / electroless nickel
Spring (plugs): Music wire

ELECTRICAL PARAMETERS (for Board Connectors)

Impedance: 100 Ohms
DVW: 500 RMS
IR: 5000 Megaohms min. at 200 VDC

VersaLink Bridge components may be ordered separately or as turnkey point-to-point cordsets, consult factory.
HIGH-SPEED

VersaLink™ Bridge

QDC Differential Twinax “bypass” connectors

How-to-order

How To Order VersaLink Bridge Quick-Disconnect Plug Connectors

Sample Part Number: 853-051

Series: 853-051 VersaLink Bridge Plug socket QDC connectors

How To Order VersaLink Bridge Quick-Disconnect Straight Board Connectors

Sample Part Number: 853-052

Series: 853-052 VersaLink Bridge straight board pin QDC connectors

Mounting Style: 1 = Solder Mount  2 = Screw Mount

PC Tail Finish: S = Solder dipped in 63/37 Tin/Lead  G = Gold Plated

PC Tail Length: -.140, -.110, -.080 (length in inches)

How To Order VersaLink Bridge Quick-Disconnect Right-Angle Board Connectors

Sample Part Number: 853-054

Series: 853-054 VersaLink Bridge Right-angle board pin QDC connectors

Mounting Style: 1 = Solder Mount  2 = Screw Mount

PC Tail Finish: S = Solder dipped in 63/37 Tin/Lead  G = Gold Plated

PC Tail Length: -.140, -.110, -.080 (length in inches)
HIGH-SPEED
VersaLink™ Bridge
Bayonet-Lock Differential Twinax “bypass” connectors
How-to-order

How To Order VersaLink Bridge Bayonet-Lock Plug Connectors

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>853-064</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>853-064 VersaLink Bridge Plug socket bayonet connectors</td>
</tr>
</tbody>
</table>

How To Order VersaLink Bridge Bayonet-Lock Straight Board Connectors

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>853-065 G -.140</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>853-065 VersaLink Bridge Bayonet-lock straight board pin connector</td>
</tr>
<tr>
<td>PC Tail Finish</td>
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</tr>
<tr>
<td>PC Tail Length</td>
<td>-.140, -.110, -.080 (length in inches)</td>
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How To Order VersaLink Bridge Bayonet-Lock Right-Angle Board Connectors

<table>
<thead>
<tr>
<th>Sample Part Number</th>
<th>853-067 G -.140</th>
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<tbody>
<tr>
<td>Series</td>
<td>853-067 VersaLink Bridge Bayonet-lock right-angle board pin connector</td>
</tr>
<tr>
<td>PC Tail Finish</td>
<td>S = Solder dipped in 63/37 Tin/Lead  G = Gold Plated</td>
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