

STRADA WHISPER

Backplane Connector



INTRODUCING

STRADA Whisper Backplane Connector

Blinding Speeds

The STRADA Whisper backplane family was designed with your end customer's need for high-performing, high-bandwidth systems in mind. Its revolutionary design transfers data at blinding speeds of 25 Gbps and offers unparalleled scalability up to 40 Gbps—allowing you to achieve efficient future system upgrades without costly backplane or midplane redesigns.

Performance Matters

The STRADA Whisper product family operates with extremely low noise, low insertion loss and little to no skew—all of which provide system architects with design flexibility and high design margin. Specific versions are available for 100-Ohm and 85-Ohm applications so you don't have to compromise on impedance discontinuities.

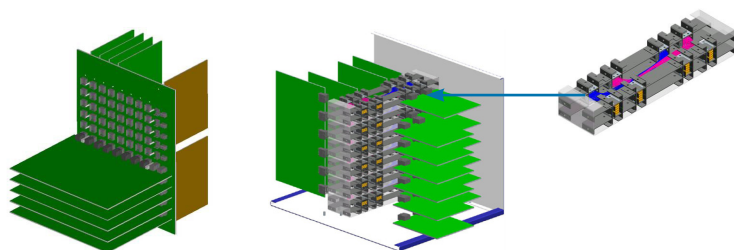
Mechanically, the STRADA Whisper connector family mirrors most high-speed backplane connectors in the market for easy implementation. It differentiates itself through folded signal pins surrounded by strong, protective C-shaped shields, which make the product family one of the most robust offerings in the market. Additionally, the connector footprint keeps crosstalk down and the overall connector design uses latest eye-of-needle (EON) technology.

Your Design Partner For 25-Gbps Architectures

To ensure smooth transitions from 10-Gbps to 25-Gbps systems using the STRADA Whisper connector, TE can assign a team of experts—comprised of our best signal integrity and mechanical engineers—to help you develop a solution that fits right into your architecture. Whether it's traditional backplane, orthogonal midplane, or a cabled-backplane system, TE can tailor the STRADA Whisper product portfolio to best fit and enable your system architecture.

Applications

- Servers & Storage
- Switches
- Routers
- Optical Transport
- Wireless infrastructure

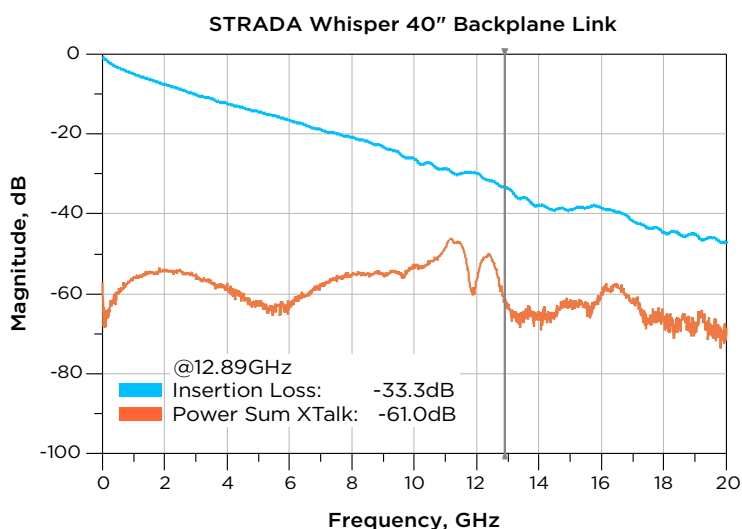


Orthogonal Midplane

Cabled-Midplane

Electrical Specifications

- Power Sum FEXT is lower than -50 dB for system implementation at 12.5 GHz
- Insertion loss is less than 1dB and linear up to 20 GHz
- Individual shielded pairs offer excellent signal integrity / EMI performance
- Little to no skew through high-speed differential pairs
- Common mode impedance controlled throughout the connector, including footprint and mating interface
- Superior 25-Gbps electrical performance maintained even in a 1.5mm unmated condition
- No reliance on noise cancellation, unlike some competitive products, which can be critical in high-speed applications
- 85-Ohm and 100-Ohm versions available



PRODUCT OFFERINGS

TE offers the STRADA Whisper product family in three versions: standard, orthogonal (for mid-plane structures) and a cabled version that allows you to run longer distances with lower insertion loss than PCB materials.

- Backplane Configuration
 - » 4.5mm right-angle receptacle
 - » 4.5mm vertical header
 - » 3.9mm right-angle receptacle
 - » 3.9mm vertical header
- Orthogonal Midplane configuration
 - » 3.9mm orthogonal right-angle receptacle
 - » 3.9mm orthogonal header
- Cable Assemblies
 - » 3.9mm cable assembly
- Embedded Cap Receptacles (in development)

4.5mm products are offered in 100 Ohm and 3.9mm configurations are offered in 85- and 100-Ohm versions.

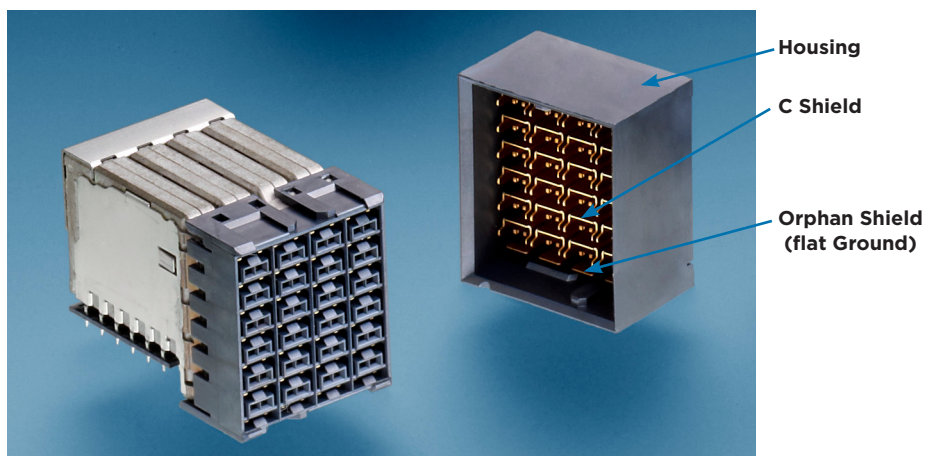
Support Tools:
[S-parameter Models](#)
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Related Links:
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Mechanical

RECEPTACLE

HEADER ASSEMBLY



Six ground connection points

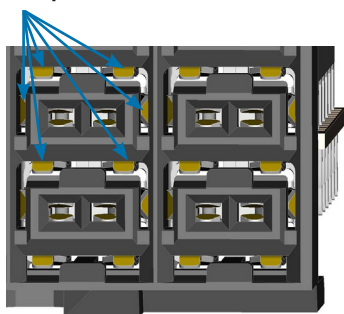


Fig. 1. Close up of signal contacts

Signal contacts are arranged horizontally in high-speed differential pairs for zero skew. This makes your board design simpler, while increasing signal integrity performance and saving board space. Each differential pair is surrounded by six ground connection points.

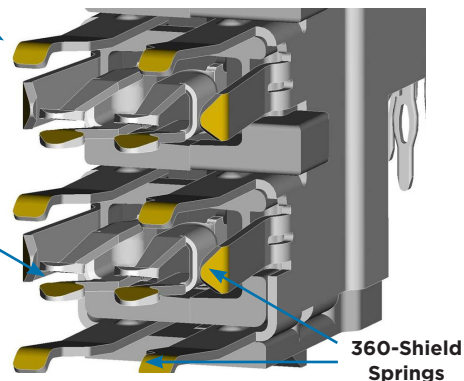
Connector allows for 1.5mm worth of mating separation (between both the ground and signal) through TE's patented C-shaped, 360-grounding design, which includes an extra "orphan" shield at the bottom of the horizontal stack of contacts for complete shielding. The 360-ground shield provides high signal integrity margin, (electrical margin) granting you more chip and PCB flexibility.

C-shaped shields protrude outwards to protect signal pins from damage.

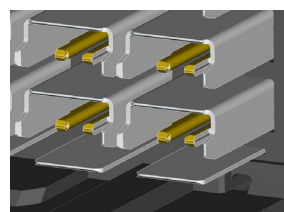
Horizontal-Shield Springs

Wide Paddle Tips

360-Shield Springs



Tabs on the sides of C-shield assure that ground contacts have at least a 2.5mm wipe, which helps maintain electrical performance with 1.5mm of unmated condition.



For More Information

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**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

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