



EUROPEAN PRODUCT GUIDE
CONNECTOR SOLUTIONS | TEST SOLUTIONS

ABOUT YAMAICHI ELECTRONICS

WORLDWIDE



Yamaichi Electronics, established 1956 in Tokyo, designs, manufactures and markets high performance interconnection components, including those for use in the most demanding applications of electronic systems. The portfolio covers high precision fine pitch IC sockets, connectors, cable assemblies and flexible printed circuits. Yamaichi has production facilities in Japan, the Philippines, Korea, China and Germany and employs 2,900 people worldwide.

EUROPE



Yamaichi Electronics Deutschland GmbH, located in Munich, is your European partner for connectivity solutions.

CONNECTOR SOLUTIONS

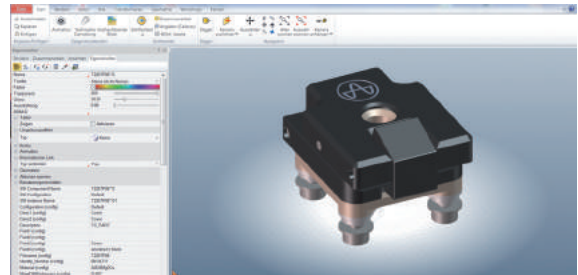
Portfolio: Card readers, board-to-cable and high speed connector systems, internal connectors, input/output connectors, circular connectors push-pull and M12, special industrial and automotive connectors, cables and cable assemblies as well as production sockets.

TEST SOLUTIONS

Portfolio: Test and Burn-in sockets, modular test contactors, module test adapter systems, receptacles, spring probe pins, PCB solutions and specialities.

ENGINEERING EXPERTISE FOR OUR EUROPEAN CUSTOMERS

Two design centers in Munich (Germany) and Sousse (Tunisia) react quickly to market challenges and work with the most modern technologies for the realisation of customer needs, from product idea to qualified mass production.



PRODUCTION FOR THE EUROPEAN MARKET

In our production facility in Frankfurt (Oder) Germany, we manufacture connectors and cable assemblies as well as test contactors.



QUALITY

Yamaichi Electronics is approved according to the current DIN EN ISO 9001:2008. The production in Frankfurt (Oder) is ISO 9001:2008 and ISO 14001:2004 certified.

CIRCULAR CONNECTORS



PUSH-PULL CIRCULAR CONNECTOR Y-CIRC® P

The Y-Circ® P push-pull circular connector series is designed, qualified and produced in Germany, which means fast reaction to the needs of our European customers.



The high vertical range of manufacturing ensures highest quality and short delivery times.



The product portfolio includes various matching accessories and cable assemblies.

Y-Circ® P characteristics

- Different connector types with various pin counts
- Various keying systems
- Solder and crimp contacts
- Chrome surface

YOUR ADVANTAGES

- Y-Circ® P is shorter than existing products
- New half shell design for easy assembly
- Made in Germany
- Cost benefits

M12 CIRCULAR CONNECTOR Y-CIRC® M

The Y-Circ® M series is a circular connector with thread mechanism locking according to M12 specifications. The product portfolio includes the standardised variations from A-coded to high-end X-coded Cat6_A.

All variations are available as a cable assembly in different lengths and cable types.



Y-Circ® M characteristics

- A, B, D coding according to IEC 61076-2-101
- Optional high class EMI protection with 360° shielding
- X coding acc. to IEC 61076-2-109
- Optional vibration proof locking



YOUR ADVANTAGES

- All-in-One cable assembly solutions
- Modular system
- Made in Germany

INDUSTRIAL CONNECTORS

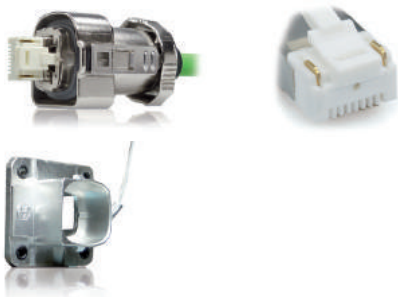


INDUSTRIAL RJ45 AND USB Y-CON® SERIES

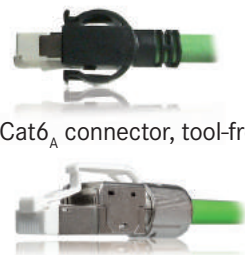
The IP protected, ruggedised Y-Con® system includes RJ45 and USB connectors & cable assemblies. A unique feature on the market is the optional integration of power contacts into the RJ45 mating face for transmission of up to 3.1A. The system enables data rates up to Cat6_A.

Y-CON® RJ45 SYSTEM

IP67/68/69K protected components
in plastic or metal housing, special EMI protection



IP20 protected components
with special locking feature, additional EMI protection

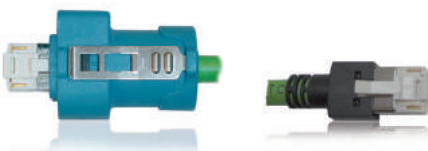


Cat6_A connector, tool-free assembly

Plugs and jacks
for use with both IP67/68/69K and IP20 protected components



Y-Con® ProfiNet



Y-CON® USB SYSTEM

Standardised USB-A and USB-B connectors integrated into the existing platform, IP67/68/69K and IP20 protection with special locking feature

Y-ConUSB modules and peripherals



Y-CON® CABLE ASSEMBLIES

Cable assemblies with all RJ45, USB and customised components



YOUR ADVANTAGES

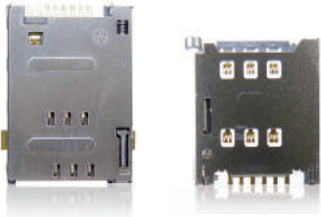
- RJ45 plus power transmission up to 3.1A
- Best in class products concerning protection against vibration, EMI and mechanical forces
- International protection code 67/68/69K
- Applicable for a wide temperature range

CARD CONNECTORS

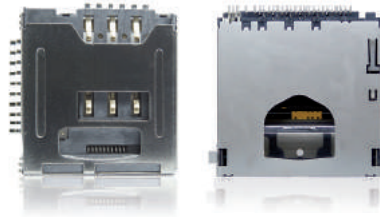


PRODUCT PORTFOLIO

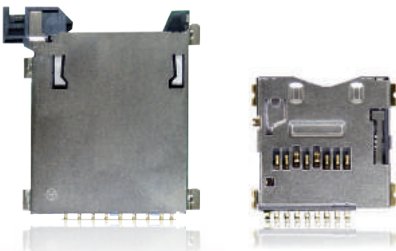
SIM and microSIM card readers



Combination card connectors



SD/MMC and microSD card readers



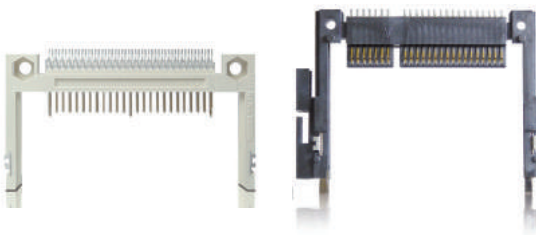
PCMCIA II connectors



Ultra high speed card reader (UHS-2SD)



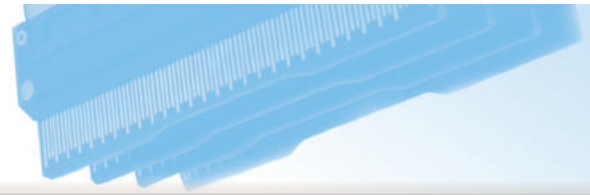
Compact Flash I and II / CFAST



YOUR ADVANTAGES

- Broad standard product range of card readers developed for harsh requirements such as those in the automotive industry
- Special technical features like 2-point contacts to ensure a stable contact point
- Very low profile designs
- Different handling mechanisms such as push-push, tray, push-lock

HIGH SPEED CONNECTORS



BOARD-TO-CABLE SYSTEMS

Non-ZIF solutions

universal system with pin counts up to 64



for LVDS, HDMI, S-ATA , PCI-Express applications



ZIF solutions

flip type connector with pin counts from 10 to 60



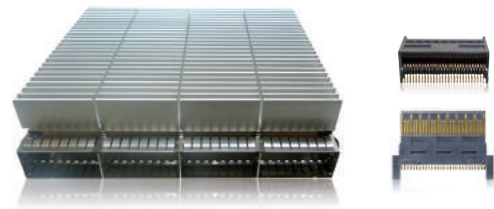
S-ATA cable system



TELECOM/DATACOM

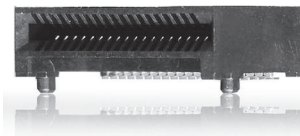
CFP4/CPF2/CFP connector system

complete component solutions from connectors to mechanical components following MSA standard



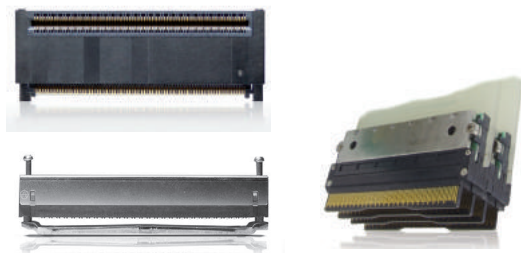
QSFP connector (eQSFP+)

with transmission capability of 32Gbps per channel, following MSA standard



AdvancedMC connectors

for AdvancedTCA, μ TCA and MCH



YOUR ADVANTAGES

- Transfer rates up to 5Gbps
- Large field of applications e.g. consumer devices, automotive electronics, telecom network equipment
- Impedance controlled high-speed transmission
- Special YFLEX® technology: outstanding electrical performance and dimensional stability, minimisation of EMI

YOUR ADVANTAGES

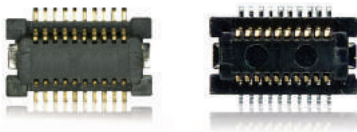
- Telecom products according to PICMG or MSA standard
- Designs based on the latest technical developments

INTERNAL CONNECTORS

PRODUCT PORTFOLIO

Board-to-Board and Board-to-Cable connectors

- 0.5mm connectors



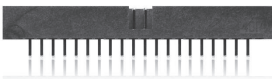
- 1.27mm connectors



- 2.00mm connectors



- 2.54mm connectors

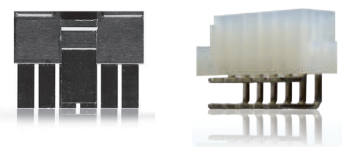


ZIF connectors for FFC and FPC cable



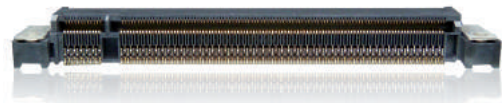
Power connectors

transfer up to 9A at a pitch of 3.0 and 4.2mm



Board Edge Connector and High-Speed Board Edge Connector (BEC)

230 pins for module cards (also according to the MXM1.0/Qseven standard), for harsh requirements of automotive and industrial applications



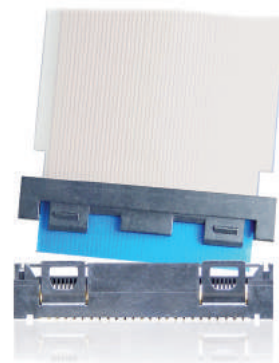
Additional power connector for 10 x 1.5A



Y-Lock® Pullforce connector and cable system



Non-ZIF system designed with an easy, quick and secure “One Push Lock” mechanism, 1.0 and 0.5mm pitch board-to-cable system



YOUR ADVANTAGES

- Large product portfolio for applications ranging from consumer electronics to industrial systems
- Product range to serve all customer requirements like SMT/TH processing, different pitches and pin counts, different plating versions, horizontal and vertical types
- We offer also cable assembly solutions for all connectors

INPUT/OUTPUT CONNECTORS



PRODUCT PORTFOLIO

FAKRA and HSD connectors



MiniDIN



USB connectors



Modular jacks



HDMI, DVI and Display Ports



D-Sub, HDD-Sub



SCSI and Mini Delta Ribbon



YOUR ADVANTAGES

- Connectors for all relevant standard interfaces
- Connectors and matching cable assemblies
- Customer specific I/O connector solutions

CABLES AND CABLE ASSEMBLIES PRODUCTION SOCKETS

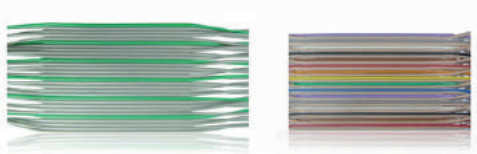
CABLE ASSEMBLIES

We offer standard and customised cable assemblies. With our “All-in-One Service” we provide profound consultancy in the development of customised cable assemblies. We design the solution, source material, produce in our own factory and test with sophisticated equipment - all out of one hand.



CABLES

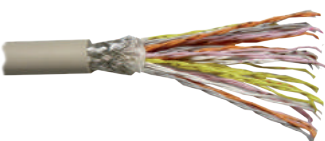
Flat cables



Flat / Round cables



Round and Multi Twisted Pairs



YFLEX® - FPC for high-speed



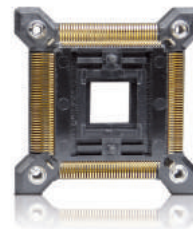
PRODUCTION SOCKETS

Sockets are available in different grid sizes, pin counts and arrays in through-hole technology, as well as customer-specific mounting.

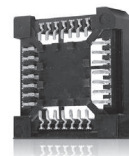
SO-DIMM



QFP / TQFP / BQFP



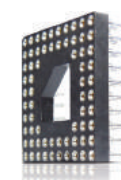
PLCC



SOP



PGA / SPGA



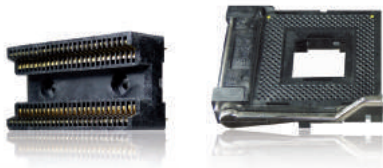
CONTACTING PRODUCTS



CONTACTING SEMICONDUCTOR

Test & Burn-in sockets

- Pin through hole devices

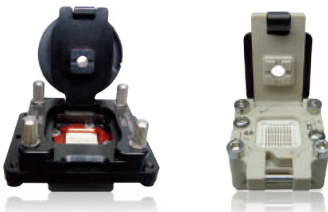


- SMT devices



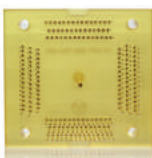
Test contactors

Full customised or unique modular Y-RED® test contactor system for devices starting with 0.3mm pitch, special device form factors and / or electrical and thermal requirements



Receptacles

Additional adapter between the PCB and socket makes the socket easily pluggable.



Spring probe pins

High reliable contact portfolio ensures to meet customers requirements.

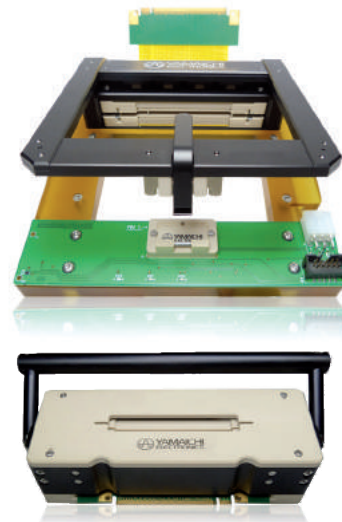


CONTACTING MODULES

We offer test adapter systems that perfectly meet the challenges of maintaining high-speed signal integrity by means of superior and reliable contact design. Our products include vertical and horizontal test adapters for both burn-in and functional testing.

Test adapters for computer-on-modules

such as Qseven, DIMM, ComExpress, SMARC and customised versions



Card edge connectors



FPC and FFC clip connectors and sockets



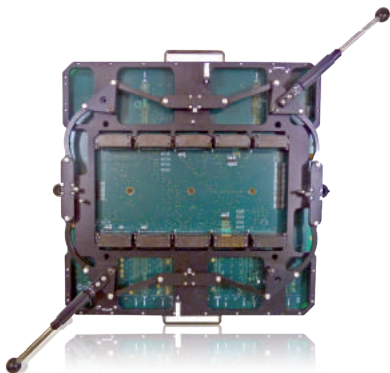
YOUR ADVANTAGES

- Reliability and endurance
- Impedance controlled
- Volume test ready
- In-line volume test

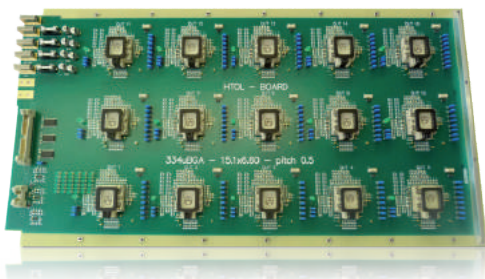
PCB DESIGN AND SPECIALITIES

PCB SOLUTIONS

Our European Design Center (EDC) for electrical engineering of interconnectivity products and systems (such as test applications, failure analysis and reliability) uses the Altium Designer software for PCB design. Our engineers are experts in all PCB related design challenges and carry out superior PCB design work.



Yamaichi Electronics is a system supplier supporting customers with decades of know-how in test philosophy, contacting, placement and routing of integrated semiconductor components in test environments, for example in DUT/Load Board, HTOL/HAST Board developments etc.



We are certified by the IPC Designer Council as a C.I.D. (Certified Interconnect Designer). Yamaichi Electronics is also a member of FED, the trade association for electronics design.

CUSTOMER-SPECIFIC DESIGNS

Yamaichi Electronics offers special designs in close cooperation with the customer and according to their requirements and rules.

We have more than 100 contact interfaces with multiple plunger styles for pitches between 0.30 and 2.54mm available in stock.

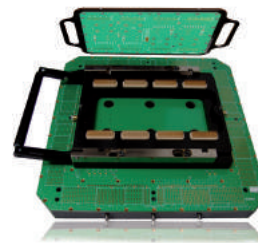
We can vary the base, spring and plating material. Custom contacts are available, as are several elastomeric contact interfaces. Alternatively we can also provide stamped, etched or eroded contacts.

For milled mechanical and isolator piece parts we use high-temperature and high-resistance proofed plastic materials. Materials with a controlled reduced resistivity are available as well.

- High-Rel applications



- Dockings for manual and automatic handling systems



- Semi-automatic test cells

