METZ CONNECT

We realize ideas

U|Contact

The gigabit terminal block – the new connection system for data cables in wall-mounted devices

Members of METZ CONNECT

RIA CONNECT · **BTR** NETCOM · **MCQ** TECH

Future-oriented product innovation

New: the Ethernet-compatible gigabit terminal block for wall-mounted devices
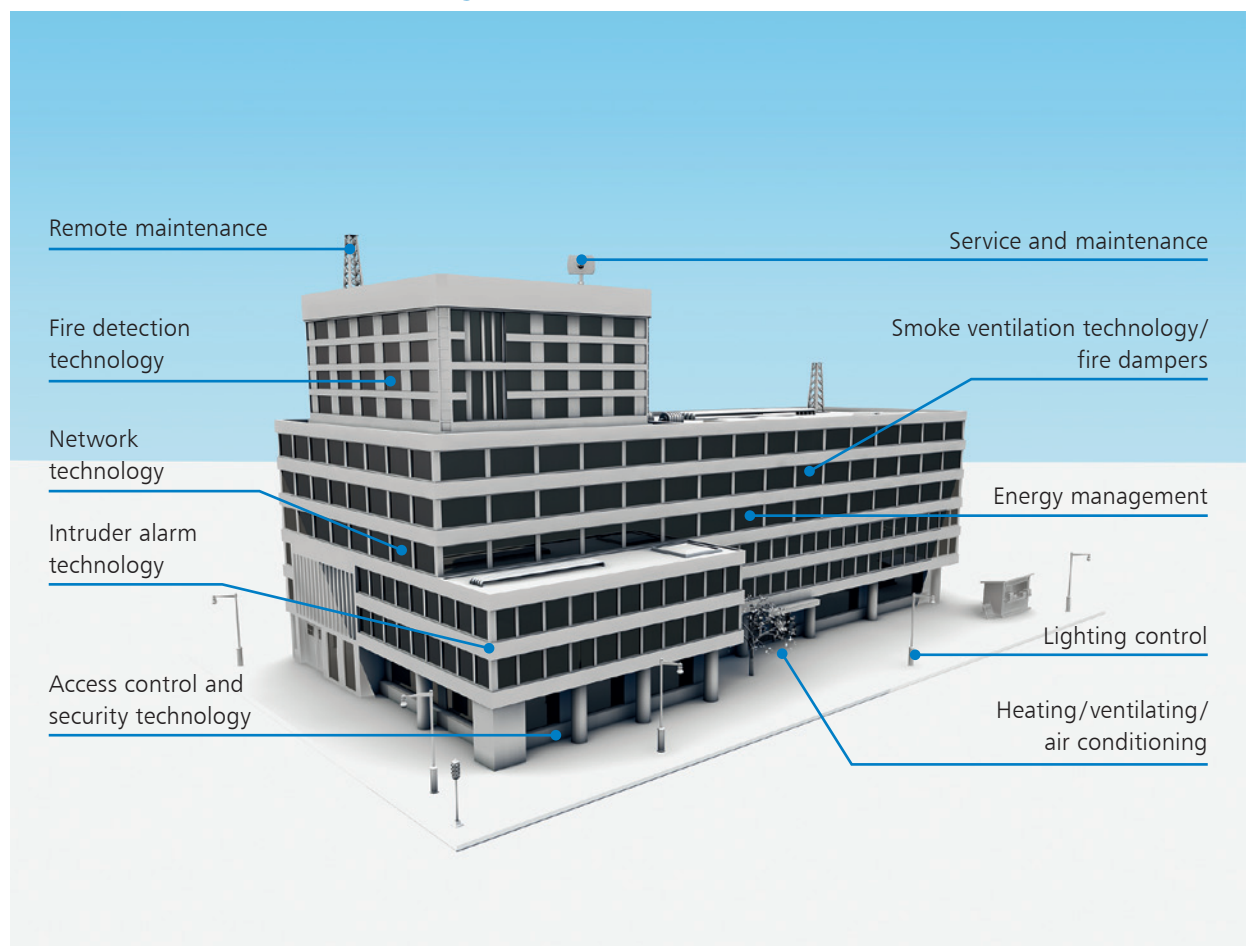
METZ CONNECT has launched a new generation of connection systems. The substantial increase in devices linked via a permanent cable connection, such as network-compatible cameras, WiFi spots, room temperature controllers, house telephones, time capture systems, fire protection, alarm and access control systems, has led to METZ CONNECT developing a future-oriented product innovation which offers an intelligent alternative solution for pluggable RJ45 solutions for wall-mounted devices with a permanent cable connection.

The new gigabit terminal block by METZ CONNECT is a high performance, Ethernet-compatible connection system for data cables in wall-mounted devices with a permanent cable connection.

The advantages of direct connections for wall-mounted devices are obvious. Compact design for flat devices, improved safety through internal connections, cost advantages through system connections as well as optimal connection friendliness, perfect network cabling for the wall-mounted devices of tomorrow.

On the normative side, the foundations are presently being laid for the implementation of direct wire connections in the market, something which is already standard in other countries.

Different applications in buildings

Remote maintenance

Fire detection technology

Network technology

Intruder alarm technology

Access control and security technology

Service and maintenance

Smoke ventilation technology/ fire dampers

Energy management

Lighting control

Heating/ventilating/ air conditioning

Application options

Application

Heating/ventilating/air conditioning
heating controls
air conditioning controls
ventilation systems
thermostats
sensor systems etc.

Access control systems
intercom systems
electronic key systems
card readers etc.

Surveillance technology
video surveillance
motion sensors
surveillance units etc.

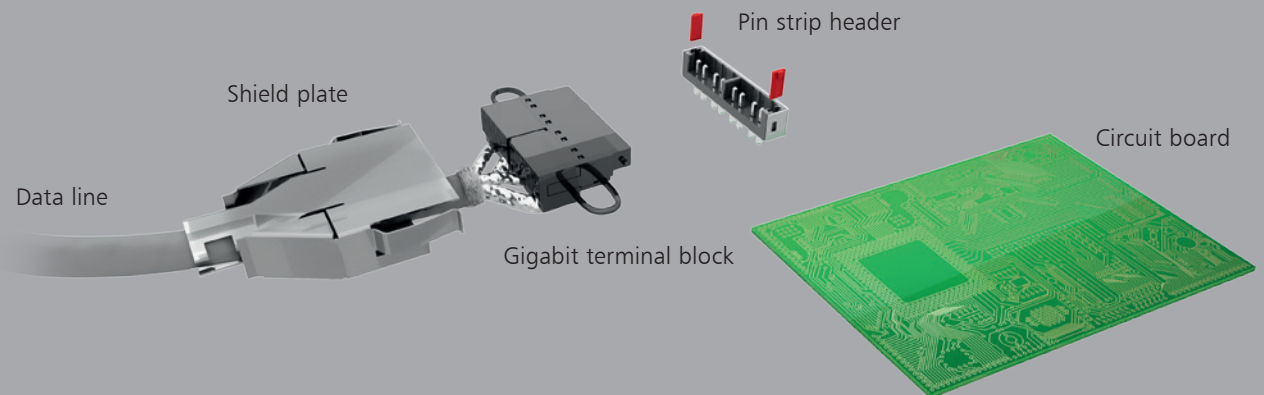**Fire protection technology**
fire detection systems
fire detectors etc.

Network technology
WiFi-Spot
Router etc.

The gigabit terminal block: versatile, compact and high performance

Pin strip header

Shield plate

Circuit board

Data line

Gigabit terminal block

Convincing technical features

The new METZ CONNECT gigabit terminal block is available as pluggable version for pin strips to connect shielded and unshielded data cables to circuit boards. Contact is via IDC contacts. The connection is suitable for 2-pair and 4-pair cables (twisted pair) type AWG 26/7 – 22/7 (braid) and AWG 24/1 – 22/1 (solid wire).
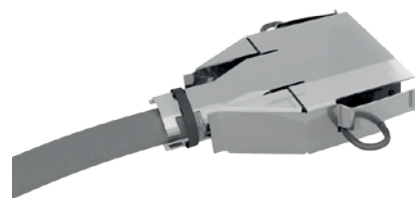
Full shielding of the terminal block via a metal cover is available as an option; PoE + capable to IEEE 802.3.at. At the same time this terminal block offers data transmission in the gigabit range.

Designed to meet requirements

In most applications unshielded cabling will be sufficient for wall-mounted devices with a permanent cable connection. However, one should always consider the application in question: for example, if electromagnetic effects interfere with data transmission, then a shielded system should be used.
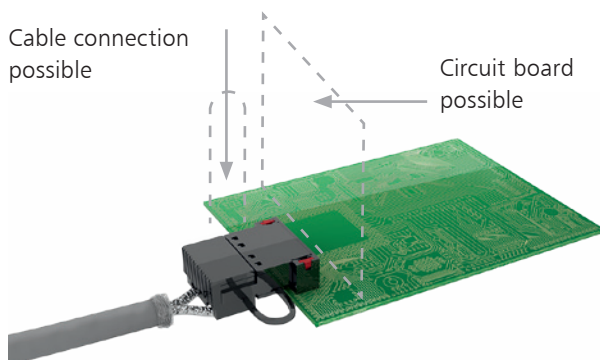
unshielded version

shielded version

Major benefits for the future

The Ethernet-compatible, direct connection gigabit and megabit terminal block for data cables is the future of connection technology for wall-mounted devices. With all its advantages it represents an intelligent alternative to RJ45 solutions.

- System data cable connection with Ethernet data transmission up to gigabit range
- Cost advantages of system connection
- Internal connection increases safety
- Compact design for flat devices
- Saves space in the device
- Reduces connection times and costs
- Optional full shielding is possible
- Suitable for 2-pair and 4-pair data lines (twisted pair)
  type AWG 26/7 – 22/7 (braid) and AWG 24/1 – 22/1 (solid wire)
- PoE+ possible
- User-friendly connection
- No visible cables on the device (cable entry on wall-mounted side of the device)
- Pluggable solution (terminal and pin strip) for two halves of the housing (sandwich design)
- Cable connection does not require special tools
- Cable inspection is possible with auxiliary aids (i.e. measuring cables)
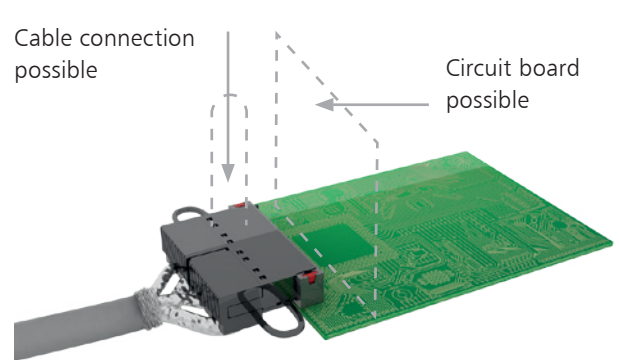- EMV conformity

4-pin megabit terminal block
with various plug directions

Cable connection possible

Circuit board possible

8-pin gigabit terminal block
with various plug directions

Cable connection possible

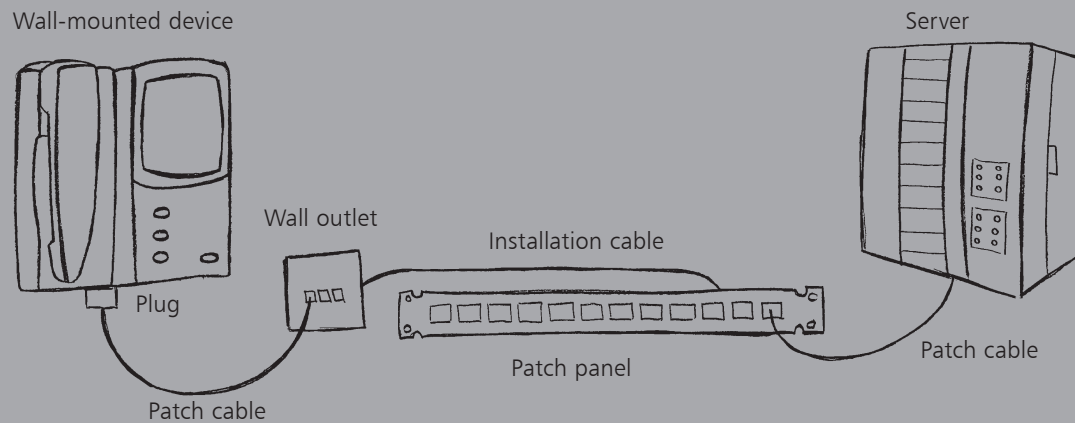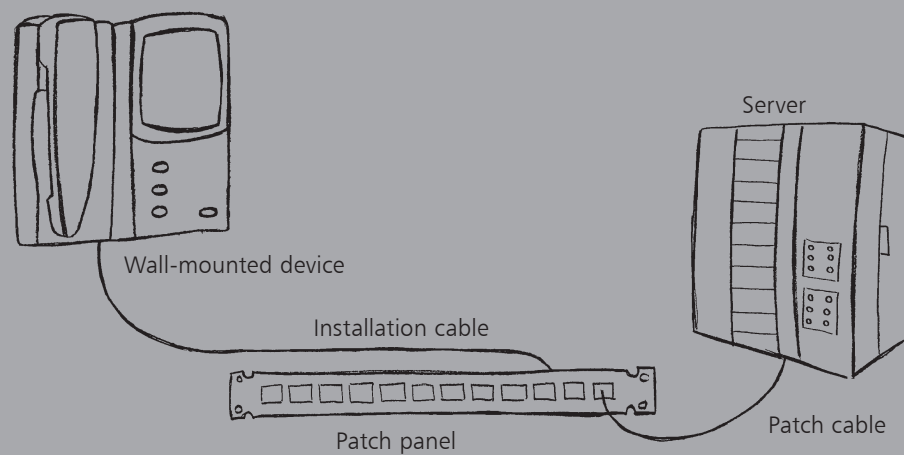Circuit board possible

The idea behind the system

At METZ CONNECT the focus is on a system concept, whereby the use of the gigabit terminal block offers numerous advantages. For example, a direct connection of the installation cable (permanent link) is possible without requiring a pre-fabricated patch cable, a plug for field assembly or special tools. Furthermore, one can save on a connection box and shorten the link.

Today's connection for wall-mounted devices

Wall-mounted device

Server

Wall outlet

Installation cable

Plug

Patch cable

Patch panel

Patch cable

Patch cable

Tomorrow's connection for wall-mounted devices

Server

Wall-mounted device

Installation cable

Patch cable

Patch panel

Range of products

4-pin megabit terminal block without shield
2-pair connection
IP31S04ZBNN

4-pin megabit terminal block with shield
2-pair connection
IP31S04ZBSN

8-pin gigabit terminal block without shield
4-pair connection
IP31S08ZBNN

8-pin gigabit terminal block with shield
4-pair connection
IP31S08ZBSN

4-pin pin strip header without shielding
PR31S04ZBNN

4-pin pin strip header with shielding
PR31S04ZBSN

8-pin pin strip header without shielding
PR31S08ZBNN

8-pin pin strip header with shielding
PR31S08ZBSN

Additional product features

- Angle of connection 90° (horizontal) / plug direction
- Angle cable connection 0° (vertical) / plug direction
- Optional mounting to housing via slot mounting with snap-in elements etc.

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METZ CONNECT

We realize ideas

RIA CONNECT GmbH | BTR NETCOM GmbH
Im Tal 2
78176 Blumberg
Germany

Phone +49 77 02 533-0
Fax   +49 77 02 533-189

info@metz-connect.com
www.metz-connect.com

RIA CONNECT, Inc.
200 Tornillo Way
Tinton Falls, NJ 07712
USA
Phone +1-7 32-389-13 00
Fax   +1-7 32-389-90 66
www.metz-connect.com

BTR NETCOM, Inc.
200 Tornillo Way
Tinton Falls, NJ 07712
USA
Phone +1-7 32-380-81 45
Fax   +1-7 32-389-81 47
www.metz-connect.com

METZ CONNECT France SAS
28, Rue Schweighaeuser
67000 Strasbourg
France
Phone +33 38 86 170 73
Fax   +33 38 86 194 73
www.metz-connect.com

METZ CONNECT
Ulitsa Twerskaja 16 | Building 1
125009 Moscow
Russian Federation
Phone +7.495.228.37.88
Fax   +7.495.935.89.62
www.metz-connect.com

METZ CONNECT (SINGAPORE) PTE. LTD.
1 Kaki Bukit Ave 3
10-01 KB-1
Singapore 416087
Phone +65 67 47 09 98
Fax   +65 67 46 31 20
www.metz-connect.com

Shanghai Branch
Room 1518, Xu Hui Business Building,
168, Yu De Road,
XuHui District, Shanghai 200030
China
Phone +86 21 33 63 42 28
Phone +86 21 33 63 43 34
Fax   +86 21 33 63 42 24

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