

Rittal – Enclosure solutions for high-speed networks



Crystal-clear benefits
for “final mile” infrastructure

The digital future is here.

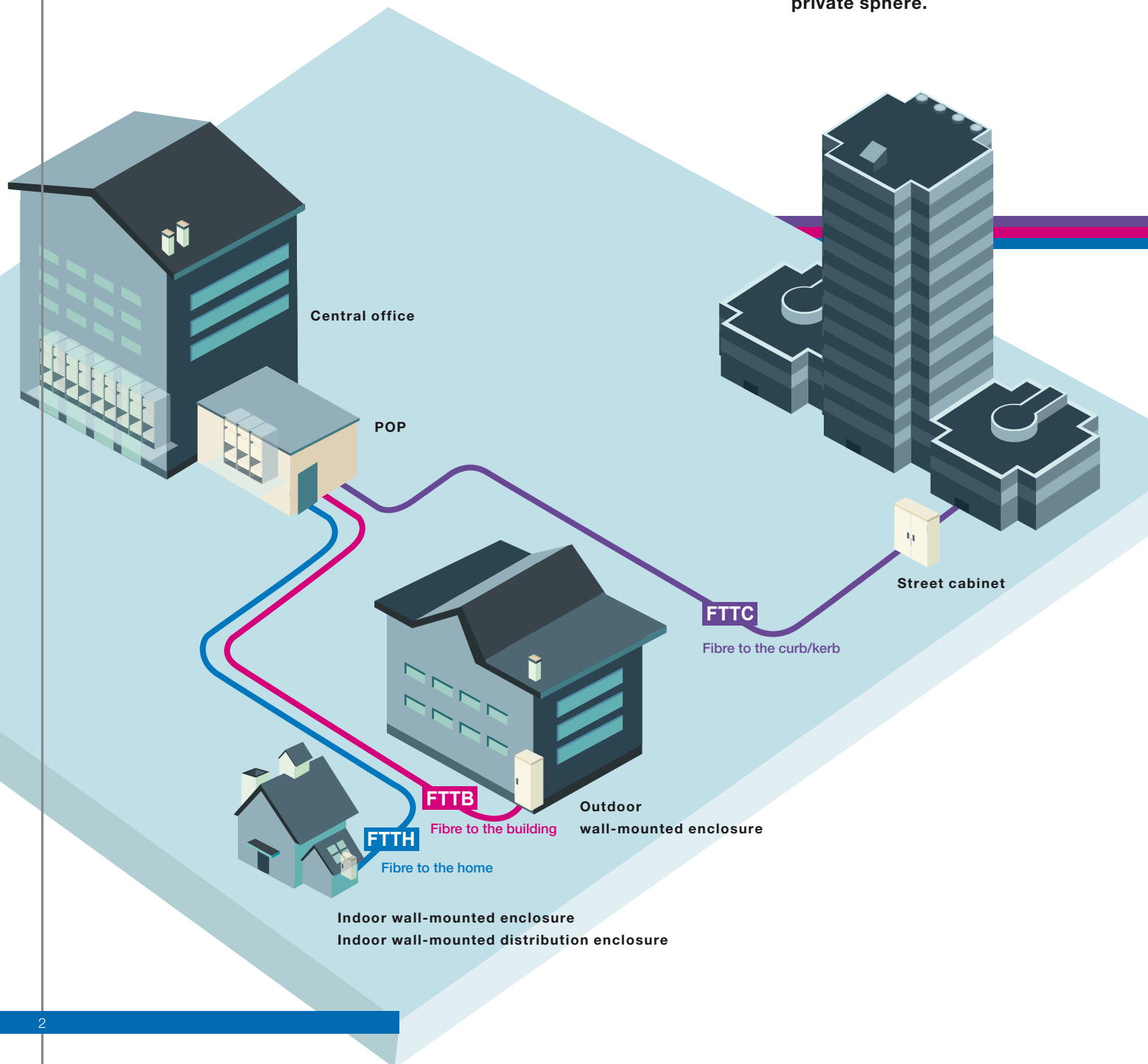
Rittal system technology for high-speed networks.

Connection to the data highway has become a fundamental competitive factor for all companies, whatever their location. Speed is increasingly important to private customers as well. The Internet, TV/video and telephone systems are merging to create integrated solutions. Home entertainment is increasingly accessed via the Internet and the demand for interactive services is growing.

As one of the world's leading manufacturers of enclosure technologies, Rittal offers impressive products and system solutions that ensure the success of broadband networks.

Rittal products are used at all network levels and play a key role in

- a perfect interactive TV experience
- high-speed data transfer
- a multitude of applications in the private sphere.







Rittal system and enclosure technology. The ideal product for every configuration.

The Rittal portfolio is based around an intelligent platform concept that supports a whole host of enclosure solutions and offers the quality and timescale benefits of series production – irrespective of the network structure or transmission channels used.

Quality and variety

Whether you need an indoor or outdoor enclosure, and whether your preference is for a floor-standing or wall-mounted configuration, you will often find the ideal solution in the extensive Rittal portfolio for immediate delivery. Rittal uses **enclosure platforms** that have been tried and tested in all kinds of applications. Mounting plates, 19" components, hybrid configurations – virtually any requirement can be met with a series solution that withstands all external influences. Rittal outdoor enclosures are resistant to heat, cold, moisture, contaminated air and vandalism, providing a secure housing and perfect corrosion protection for all applications.

Ideal climate

As a leading manufacturer of **climate control technology**, Rittal ensures **energy-efficient and system-integrated cooling** of all active components, with perfect coordination of all interfaces to the enclosure. Taking the various climate concepts

- passive cooling
- fans/heating systems
- air/air heat exchangers
- climate control units with all the required output levels

as our starting point, we work with you to establish the system solution best suited to your installation site.



Rittal outdoor enclosures – a secure housing with perfect corrosion protection.



Rittal climate control components – developed by the company for perfect coordination with enclosures.



Rittal IT solutions – intelligent open-frame enclosure configurations save time and money.



Rittal WK 4 enclosure – superior mechanical protection for hardware.

**Rittal system solutions for outdoor use.
All-weather professionals for FTTC and
FTTB projects.**



Combining glass fibres and copper – active and passive technology – the hardware installed in the enclosures is a valuable commodity. Consequently, it is very important to stop freely accessible enclosures being forced open or vandalised. Rittal has the ideal solutions in the form of high-quality locking concepts and covered hinges for maximum mechanical security. Anti-graffiti surfaces and the appropriate mix of materials to protect against high levels of roadside pollution are evidence of Rittal's uncompromising approach to quality.

Rittal has a wide range of solutions available for immediate delivery, including both individual enclosures and bayable floor-standing, wall-mounted or mast enclosures.

When installing enclosures in residential areas, noise limits must not be exceeded.

Intelligent climate control solutions are required to route the high heat losses from the enclosure using quiet fan motors. This is where the know-how that Rittal has obtained from countless projects really pays off, in the form of its in-house component developments. Enlarged surfaces, targeted flows through hot-spots and long-lasting filter solutions are just some of the company's technical highlights.

If a more customised solution is required, your project deserves a reliable partner. In addition to adapting your enclosure's appearance, we also take responsibility for all system engineering activities.



Rittal clients are discerning and demand high standards of security, reliability and service. In addition to the benefits of series production, they also appreciate being able to take advantage of customised project planning based on a partnership approach. This includes a string of services such as:

- Application engineering
- Customising/prototyping
- Comprehensive tests/inspections
- Local and international after-sales services



FTTC – enclosures with concealed climate control with no visible vent slots.



FTTB – flexible wall-mounted or mast enclosures with optimum cable management.



Excellent protection against vandalism thanks to special locking concepts.



Noise-optimised climate control concepts with the best possible air throughput.

**Rittal system solutions for indoor use.
Maximum flexibility and variety for your FTTH projects.**



Rittal's standard enclosures and cost-effective semi-standard solutions are the perfect choice for indoor installations. While the visual aspect is less crucial, other requirements – such as rapid system configuration, optimum accessibility during installation due to open mounting levels, and simple contact hazard protection – are very important. Rittal's indoor solutions also deliver a whole host of further benefits.

Whether you need 19" systems (FlatBox, QE Box, QuickBox or AE wall-mounted distributor) or small distributors with a flat design – fibre-optic or FM, for instance – make sure you always play it safe with Rittal.

Advantages offered by Rittal include a wide-ranging product portfolio with flexible series solutions, direct delivery from the warehouse, individual project specification and the expertise required to enable extremely quick rollout.



Enclosure with 19" levels, available either as an open mounting frame or with a high IP protection rating.



Compact small distributors with integrated mounting level and installation cover.

One stop, one shop. Ensuring the success of your regional rollout.



Even the many different needs of real estate owners and housing associations are catered for perfectly with the help of fixed basic configurations rather like shopping baskets to which various items are added. Rittal puts together customised product and system configurations for you and stores these at its supply centres ready to be called up. You simply place your order using a dedicated item number, enabling you to combine the benefits of series production with your specific requirements.



We have the ideal solution for networks with both copper and glass-fibre infrastructures.



We ensure the perfect connection wherever required.

**Rittal system solutions for POP network enclosures.
The ultimate in flexibility.**



For upstream network levels such as central office applications or POPs – the access points to the long-haul sector – the customised solution is quickly configured for the relevant junction.

Rittal's pre-configured network enclosures are available for immediate delivery, with or without UPS, and with open distribution frames for managing large quantities of cables. This gives you access to a basic system that enables customised solutions to be created based on tried-and-tested standard components.

As a full-service provider for all types of industrial enclosures and IT racks, Rittal offers a huge range of accessories. Virtually all of them are identical for indoor and outdoor applications.

Intelligent power management. Reliable UPS and system monitoring.

Rittal's power distribution systems incorporate all the company's system intelligence. This ensures state-of-the-art, efficient power distribution and protection – from variable busbar systems and mounting plate assembly to a comprehensive range of system accessories. Play it safe with your network by using Rittal UPS solutions and a monitoring system such as Rittal CMC-TC.

Smart Package. The server rack with a power distribution concept.

Smart Package racks provide the ideal basis for your IT infrastructure. These server racks are equipped with the PSM (Power System Module) power distribution concept.

TE open. Unlimited applications covering all tasks in the IT sector.

Both as a network distribution frame with maximum accessibility from all sides for assembly and installation, and as a server rack with a high load capacity of up to 700 kg. Unrestricted airflow, due to the open design. The standard cable trays in the roof area mean that even large quantities of cables are easily routed to the various levels without kinks. There is an extensive range of accessories available for individual cable management solutions.



Smart Package solutions – pre-configured network enclosures with integrated UPS.



TE open – open racks for optimised management of large quantities of cables.



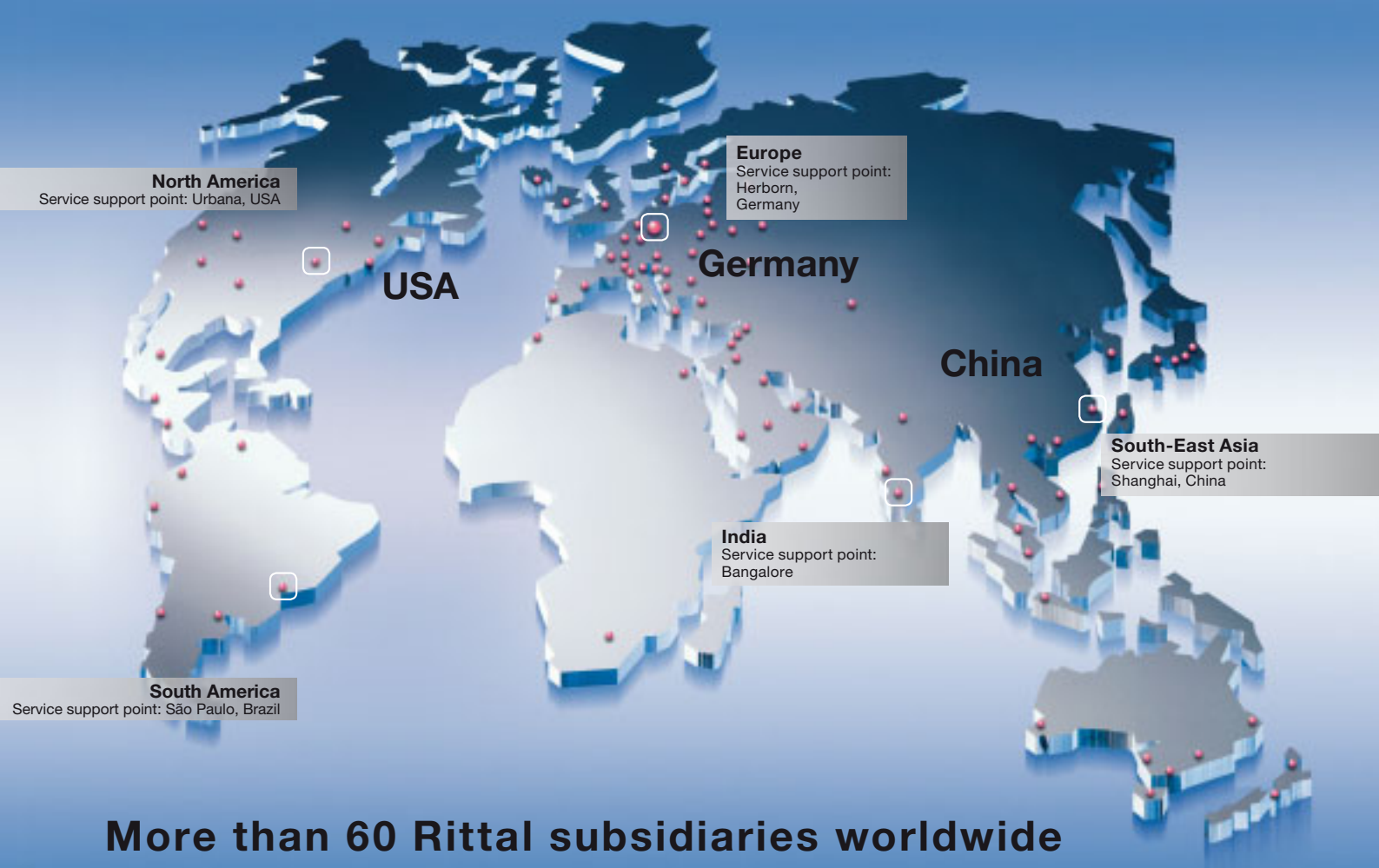
Single-phase UPS systems up to 6 kVA, 3-phase UPS systems up to 800 kW.

POP (Point of Presence)

Point of Presence (POP) designates the locations of dial-in nodes for telephone connections and online services, for example the access point to the Internet at the Internet provider's or the connection point between a long-haul and a local carrier.



Endless possibilities for cable routing from system accessories.



More than 60 Rittal subsidiaries worldwide

With more than 200 locations worldwide for a truly global service

Five global service support points in all the world's economic hubs, more than 60 subsidiaries and over 200 partners worldwide – these figures sum up the global service from Rittal. Because when it comes to service, nothing is more important than customer proximity, peace of mind and reliability.

From Europe to the USA and South America, to China and India: Wherever you are using a Rittal product, we will take care of it. Rittal service engineers around the world are all trained to the same high standards of performance and quality, and are at your service 24 hours a day.

Further information can be found at www.rittal.com

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