

Mobile Network solutions



Improve the business case of your mobile network infrastructure

Today, consumers and companies alike are pushing the boundaries of mobile connectivity by requesting increasingly fast, reliable and environmentally conscious communications – everywhere.

At HUBER+SUHNER, we support you in continuously expanding the capacity and coverage of your network, while optimising the performance of existing infrastructure. We offer reliable solutions that ready your network for the future and reduce total cost of ownership (TCO) across the entire life cycle of your cell sites.

Our aim is to bring you mobile network solutions that are easy and efficient to install. We do this by offering you customised solutions specifically developed to suit your network roll-out environment. That is how we contribute to the continuous improvement of your mobile network infrastructure.



Structure

By customising our flexible solutions to fit your specific needs, we enable a smooth roll-out. Our solutions are space-optimised and easy to camouflage, making the most out of each location.



Enhance

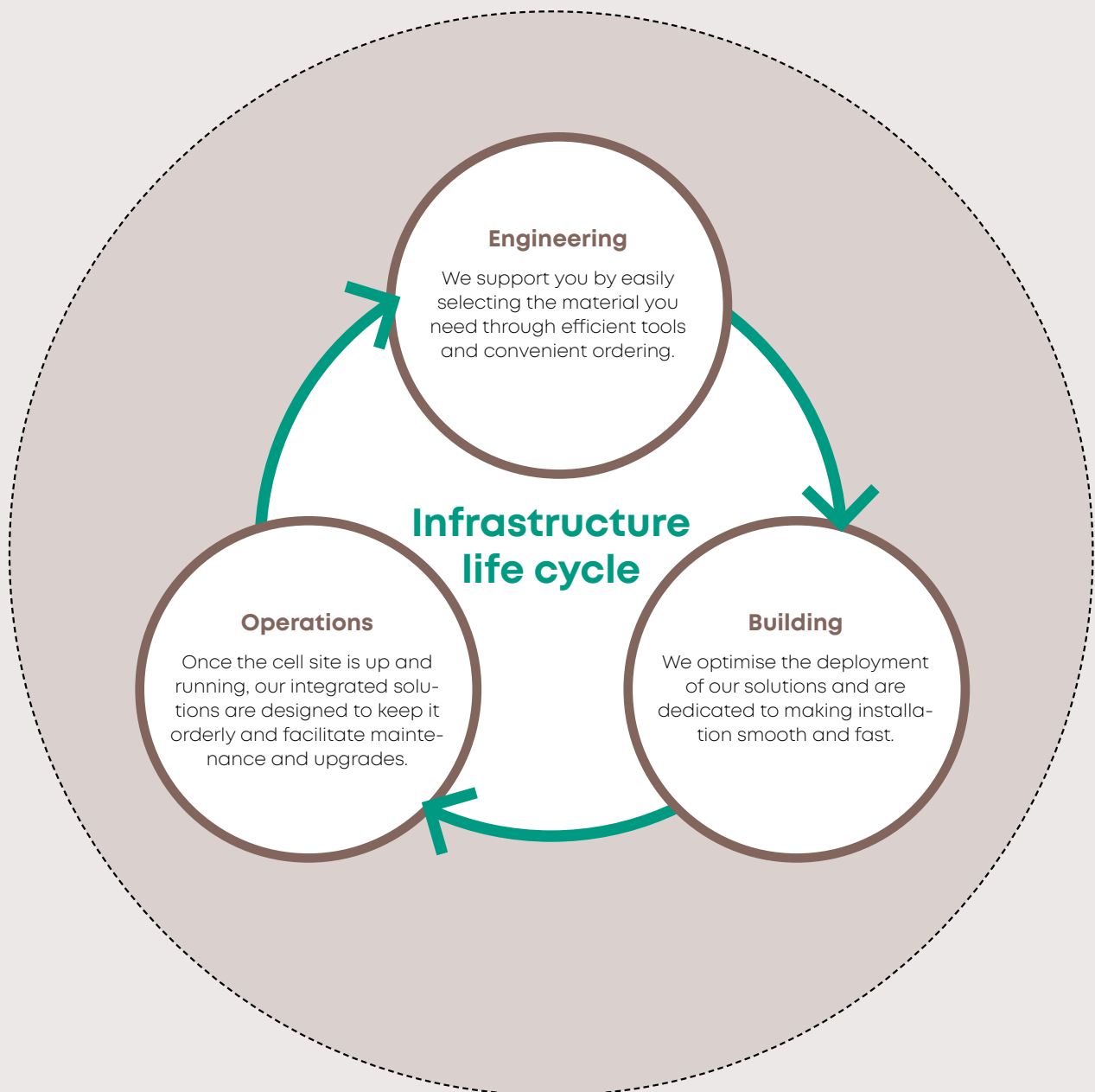
As your network evolves, we enable you to boost your bandwidth instantly, without adding more fiber. And our upgradeable cabling solutions provide compatibility with next-generation active equipment.



Drive

We are your partner for the long term, engaged from the very beginning of engineering and supporting you across the entire life cycle.

Supporting you across the entire life cycle of your mobile network infrastructure



Our areas of expertise

We support you with flexible and customisable passive equipment that offers maximised capacity as well as efficient coverage in your mobile network. That is how we contribute to improving the business case of your mobile network infrastructure.

Harsh environment cabling

Simplify installation with customisable cabling that withstands harsh conditions and remains compatible with future generations of active equipment.

Our modular and flexible products demonstrate high resilience against harsh ambient conditions, including animal damage. Our cabling solutions offer high compatibility with all vendors and support quick upgrades.

Antennas

Maximise performance, simplify installation and make each cell site blend in with its surroundings with our customer-specific antenna solutions.

Our antenna solutions range from macrocell to small cell applications and boast a low-profile footprint through their compact and adaptable design. Furthermore, simulation and on-site testing make the roll-out smooth.

Bandwidth expansion

Boost bandwidth at the edge of the optical network without adding more fiber.

Our easily integrated WDM solutions offer rapid bandwidth expansion deployment into the existing network. They optimally satisfy specific requirements through a customer-tailored product portfolio.

1 Cables

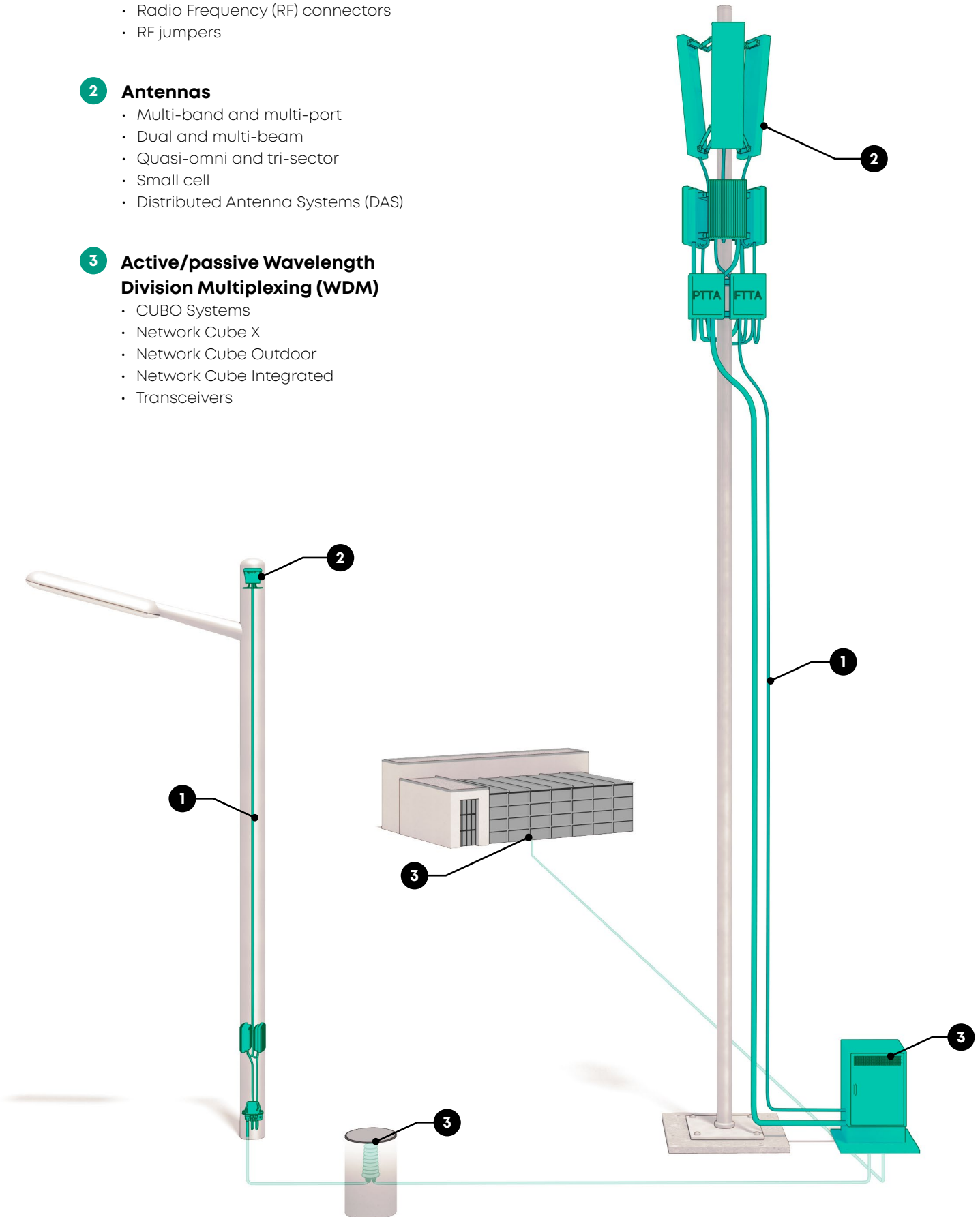
- MASTERLINE cabling systems
- Fiber and power boxes
- Power cables
- Radio Frequency (RF) connectors
- RF jumpers

2 Antennas

- Multi-band and multi-port
- Dual and multi-beam
- Quasi-omni and tri-sector
- Small cell
- Distributed Antenna Systems (DAS)

3 Active/passive Wavelength Division Multiplexing (WDM)

- CUBO Systems
- Network Cube X
- Network Cube Outdoor
- Network Cube Integrated
- Transceivers



Where our solutions are applied

We offer you our expertise and solutions specifically developed for different applications. This is how we contribute to the improvement of your business case, regardless of location and function.

In-building coverage (IBC)

Ensure mobile connectivity with indoor DAS/outdoor DAS

- Airports
- Shopping malls
- Office buildings
- Subway network

Private mobile network

Combine indoor and outdoor campus networks

- Manufacturing and factories
- Energy and utilities
- Transportation and logistics
- Enterprises and campus
- Mining
- Oil and gas
- Smart cities

Macrocell

Provide basic coverage and capacity to end-users

- Towers
- Roof tops
- Transport/x-haul



Test lab

Support testing environments through all-optical switches and RF-over-Fiber timing solutions.

- **Lab automation**

Small cell/ densification

Enable mobile network densification outdoors using small cells

- **Advertising pillars**
- **Bus shelters**
- **Streetlights**
- **Store fronts**

Special applications

Deploy temporary networks and secure coverage for blue light organisations

- **Disaster recovery networks**
- **Mobile cell sites (COW & COLT)**
- **Drones**
- **Blue light organization networks**

Macrocell

Reduce TCO with our easy-to-install, modular and customisable solutions for macrocells. Our solutions support the continuous roll-out of new technologies as well as the next generation of active equipment.

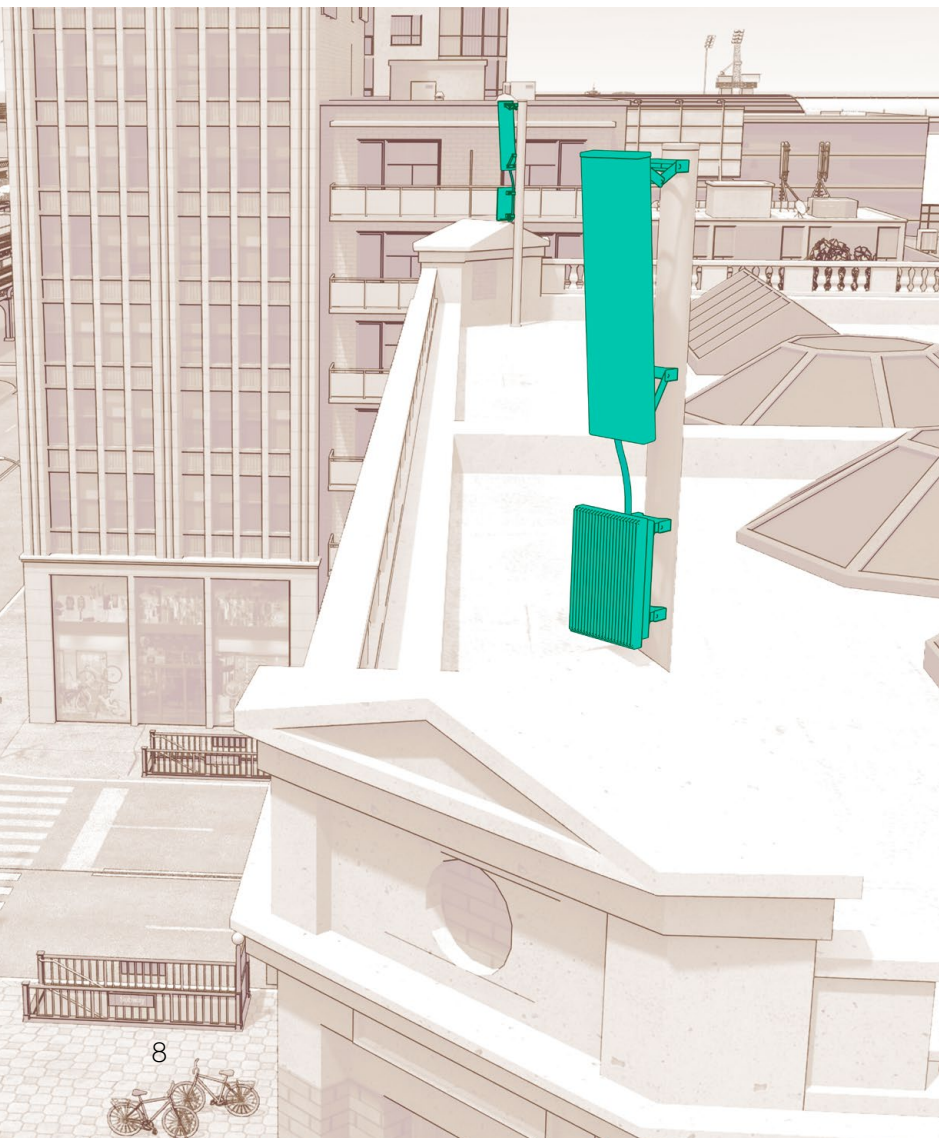
Our scalable and expandable solutions are vendor-neutral and compatible with current and future equipment. Also, on-site installation efforts are minimised through a modular and flexible product portfolio suitable for every installer.

Benefits of our solutions

- Reduced tower leasing costs with hybrid cables and compact boxless solutions
- Site sharing through clear demarcation points
- Reduced waste in network swaps by reusing existing products with minimal connectivity changes

Products

- Antennas
- RF jumpers
- Fiber Optic (FO) and power jumpers
- Fiber and power boxes
- MASTERLINE cabling systems
- 19" CTB patching boxes
- CUBO Systems
- Network Cubes



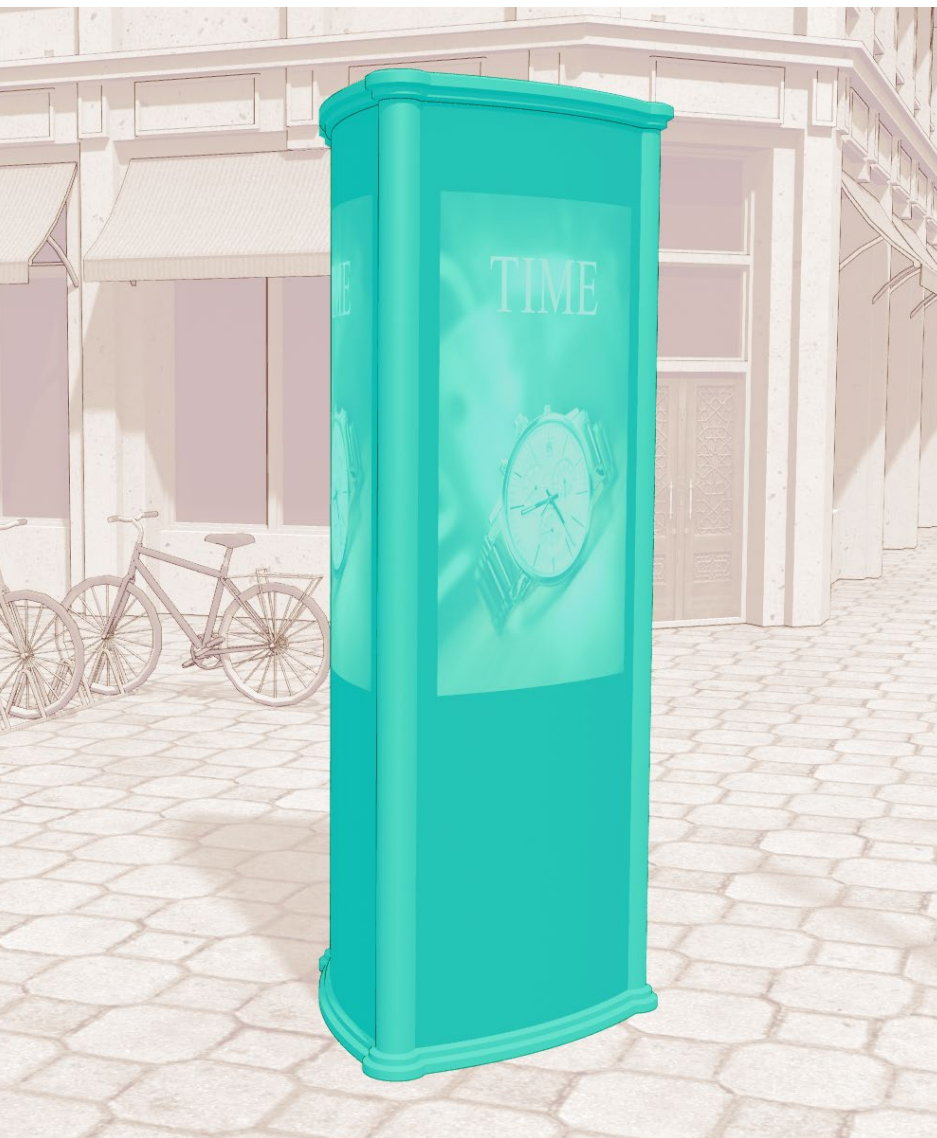
Small cell/densification

Make the most out of existing street infrastructure cost-effectively. Our solutions focus on providing easy installation and smooth scalability as well as bringing discreet and pedestrian-safe connectivity to densely populated areas.

Our versatile solutions are easy to integrate into current environments and can be successfully used for several different applications.

Benefits of our solutions

- Low visual impact
- Intuitive and quick installation
- Incremental increase in capacity through bandwidth expansion
- Efficient testing and simulation to ensure pedestrian safety, including electromagnetic compatibility (EMC) compliance



Products

- SENCITY® Urban small cell antenna series
- RF standard plenum jumpers
- MASTERLINE Ultimate Micro (MLUM)
- Network Cubes
- FO cables

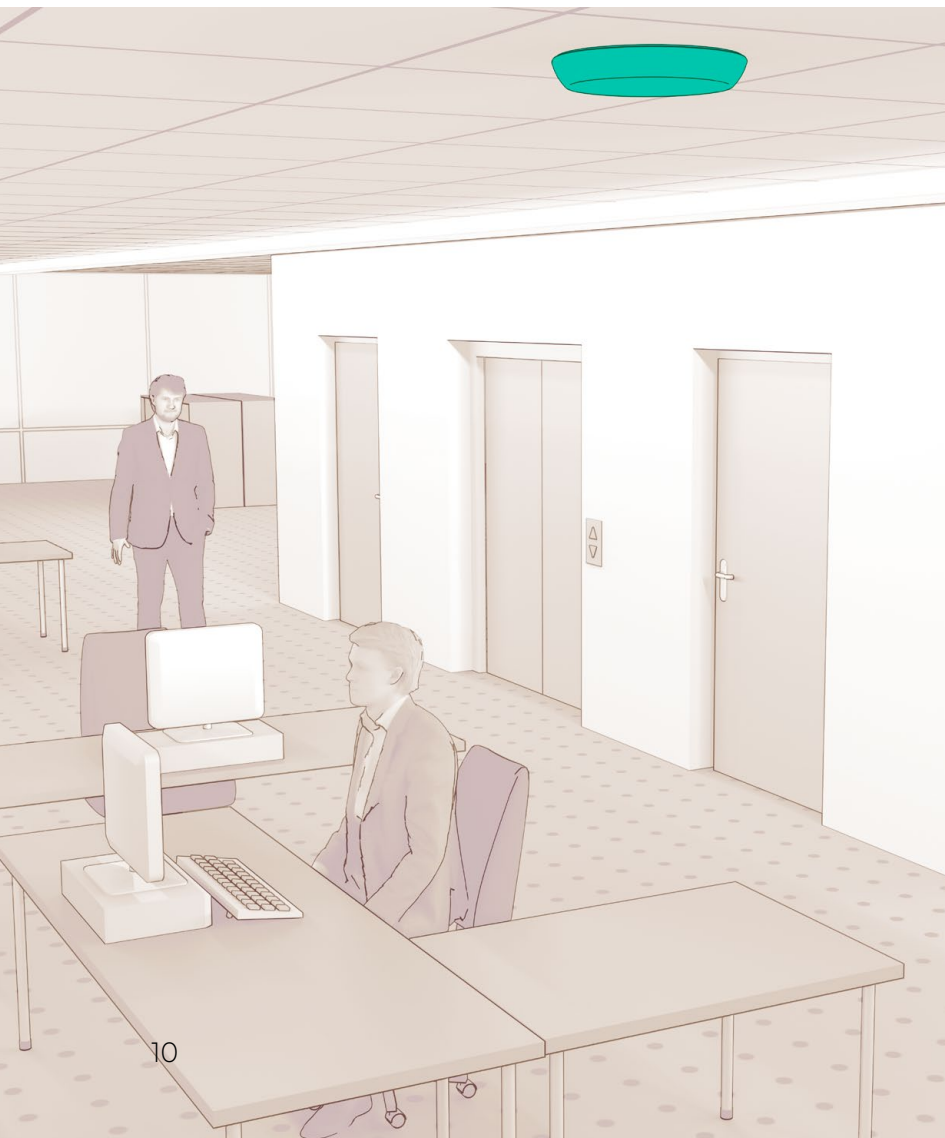
In-building coverage (IBC)

Bring high-performance mobile coverage to your indoor spaces by deploying our easy-to-install solutions.

Specifically designed to fit into your environments, our solutions offer concealed connectivity through a compact and sleek design as well as discreet mounting systems.

Benefits of our solutions

- Innovative design for intuitive handling
- Multi-band capabilities to support current and future frequency bands



Products

- RF standard plenum jumpers
- SENCITY® Occhio DAS antenna series
- SENCITY® Rondo
- Quick Fit Plus (QF+)
- GPS-over-Fiber

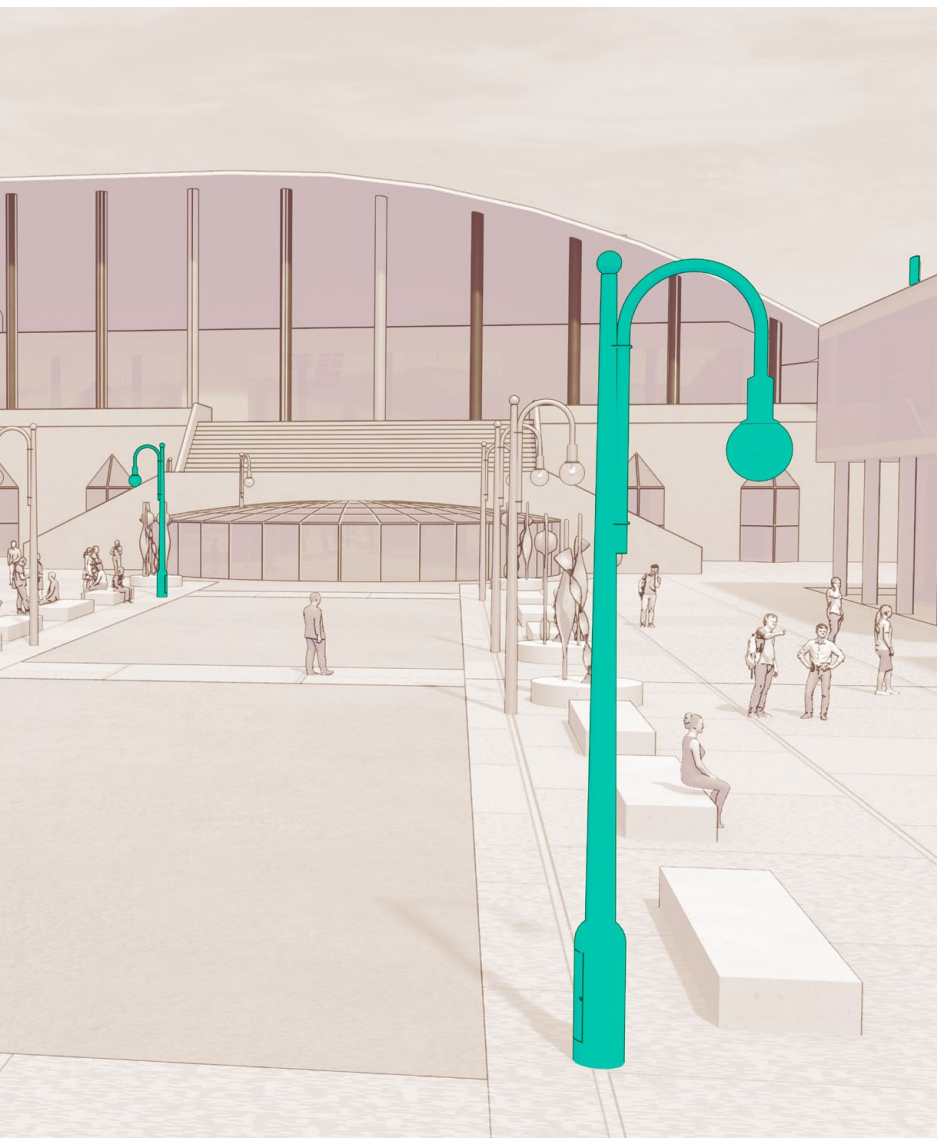
Private mobile network

Provide high-performance and cost-effective mobile connectivity solutions that upgrade existing infrastructure in combined indoor and outdoor environments.

Deploy efficiently with quick and easy customer environment simulations.

Benefits of our solutions

- Multi-band capabilities to support the frequency bands of the future
- Electromagnetic Compatibility (EMC) compliance checks
- Incremental increase in capacity through fiber optic bandwidth expansion between multiple locations
- Possibility of integrating an edge data center



Products

- SENCITY® Urban small cell antenna series
- SENCITY® Occhio DAS antenna series
- CUBO System
- Network Cubes

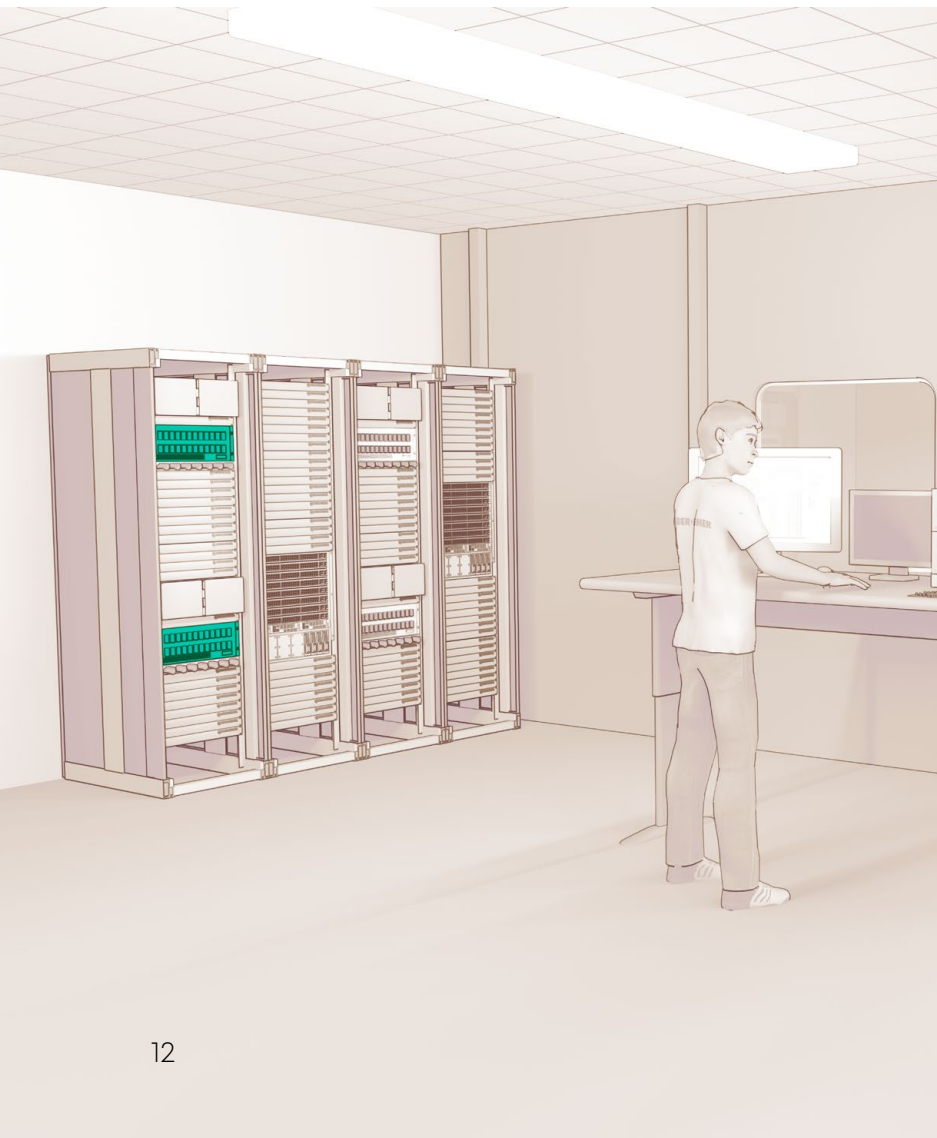
Test lab

Automate and simplify testing by streamlining resource utilisation, improving remote accessibility and replacing lossy coaxial cables.

Our solutions for test labs offer the possibility of connecting multiple devices, and expanding testing to multiple locations.

Benefits of our solutions

- Reconfigured network topology
- Reduced power consumption
- Space saved in lab
- Increased testing distance between devices
- Automated verification testing
- Remote control testing from anywhere and across multiple testing teams



Products

- POLATIS® all-optical switches
- RF-over-Fiber
- Network Cubes

Special applications

Ensure reliable connectivity under every circumstance with our easy-to-install solutions for temporary and highly reliable networks.

Our robust products are optimised for fast installation, and are built to last and to withstand harsh environmental conditions.

Benefits of our solutions

- No certified technicians needed during the installation process
- Quick installation
- Reusable equipment

Products

- Special communication antennas
- XTTA
- MASTERLINE cabling systems
- RF standard plenum jumpers
- Corrugated RF jumper cable assemblies
- SENCITY Occhio
- Network Cubes
- CUBO System
- CUBO Mini

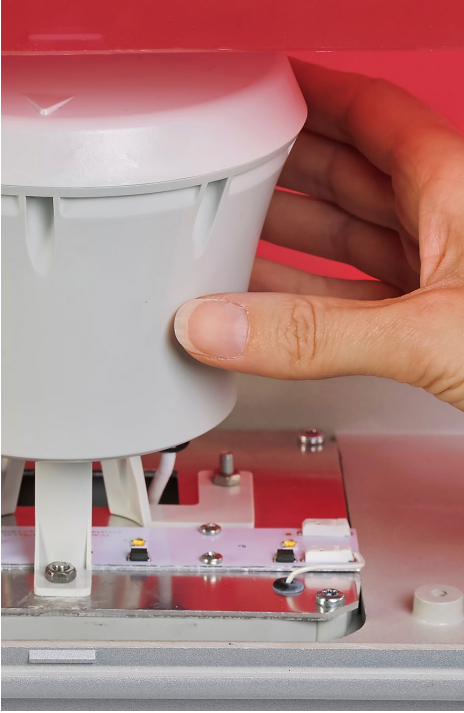


Consultancy and global support

Work with our knowledgeable global team of experts and receive guidance on design, installation and measurement. We offer complimentary design consultancy and bring you materials and tools to support you in the successful fulfilment of your business case.

We are a global partner who stands by you throughout the full project life cycle, from planning to operations. And since our solutions offer extensive customisation capabilities, we co-create the most suitable solution together with you.

Meanwhile, our global footprint brings our experts and customer service close to you, wherever you are located.





Connecting – today and beyond

About HUBER+SUHNER

We are a leading global supplier of components and systems solutions. With our broad range of products and deep know-how, we serve the industry, communications and transportation markets with applications from the three technologies of radio frequency, fiber optics and low frequency. And as a global company with a presence in over 80 countries, we stay close to our customers. Always.

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HUBER+SUHNER is certified according to ISO 9001, ISO 14001, OHSAS 18001, EN(AS) 9100, IATF 16949 and ISO/TS 22163 – IRIS.

Waiver

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