

MOLEX TELECOM INFRASTRUCTURE SOLUTIONS >

Leading Technology to 5G and Beyond



molex



INNOVATION THAT DRIVES ▶ TOMORROW'S TELECOM INFRASTRUCTURES

Mobile communication has become an essential part of our infrastructure and daily lives. With carriers facing growing data traffic demands, a transformation is required to power next-generation networks enabling 5G and delivering increased bandwidth for higher data rates at low latency.



Building on decades of expertise in the telecom and datacom industries, Molex develops game-changing technologies and leads the key standards committees that drive the industry forward.

With our leading portfolio of optical, copper, RF connectivity, networking and computing solutions, we enable capabilities that pave the way for 5G and beyond.

We are a leader in designing and manufacturing high-performance connectivity solutions for leading telecom and datacom companies. Working with all key stakeholders, our expert team can help you think through your future needs, consumer demands and technical goals, creating efficiencies in design and manufacturing that bring your ideas to market, faster.

Backed by global reach, Molex brings leading innovation to you and delivers best-in-class services including simulation, mechanical, electrical, environmental and EMI testing.

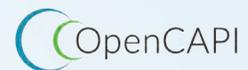


SETTING THE STANDARDS THAT PROPEL THE INDUSTRY

Molex is a recognized leader in data center technology and high-speed networking, anticipating and driving tomorrow's technologies.

As a founding member and chair of many MSAs, Molex is actively participating in, setting, evaluating and adapting industry standards.

Collaborating with Open Compute, Open19, OpenCAPI and other groups, Molex is able to deliver state-of-the-art solutions to you and your customers.

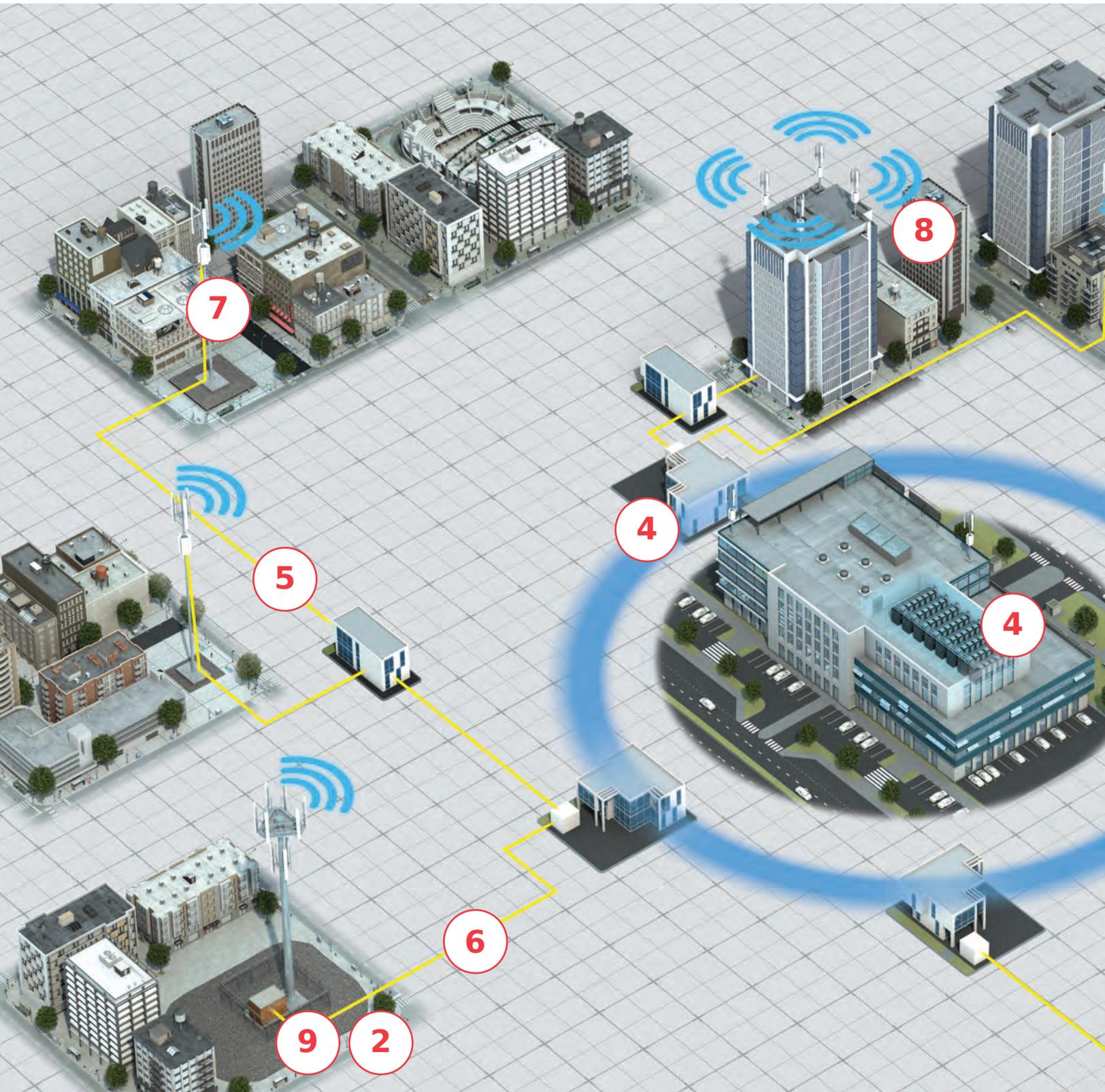


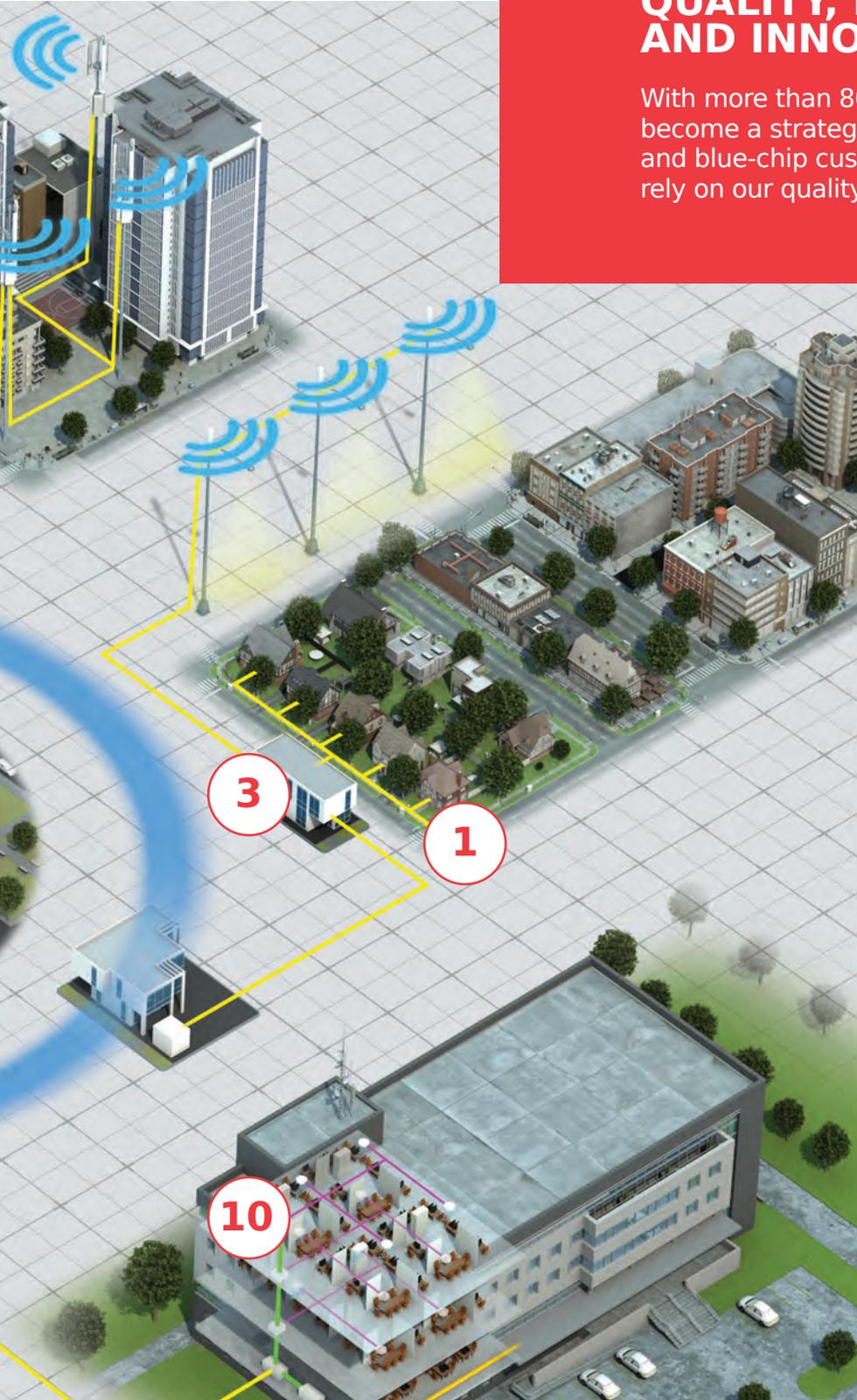


**YOUR NEXT-
GENERATION
TELECOM
SOLUTION STARTS
WITH MOLEX**

FUTURE-READY TELECOM INFRASTRUCTURE

Molex helps you to select, design and build tomorrow's networks in changing architectures with proven expertise and technologies for a reliable, scalable — and fast — infrastructure.





QUALITY, PERFORMANCE AND INNOVATION

With more than 80 years of experience, we have become a strategic supplier to key telecom OEMs and blue-chip customers in many industries that rely on our quality and expertise.

- 1 Fiber to the Home (FTTH)
- 2 Network Monitoring
- 3 Radio Access Network (RAN)
- 4 Mobile Switching Center (MSC) and Core
- 5 Solutions for Fronthaul Infrastructure
- 6 Solutions for Mobile Backhaul
- 7 Remote Radio Unit (RRU)
- 8 Active Antenna Unit (AAU)
- 9 Base Band Unit (BBU)
- 10 Small Cell



Solutions for Fiber to the Home

- WDM Systems
- Coexistence Modules
- Splitters
- Wavelength Blockers
- Passive Optical Switches



Optical Jumpers

Solutions for Network Monitoring

- High Performance Compute Cards (FPGA)
- Optical Taps
- Passive Optical Switches



FPGA Solutions

Solutions for Fronthaul Infrastructure

Hybrid power and data transmission assemblies offer compact solutions for installing power and signal from cell towers to base stations or base band units. Molex can design solutions per your specifications, customizing a single assembly that manages multiple fiber signals and power while streamlining installation and 5G upgrades.



Hybrid Power and Data Assemblies

Electrical Solutions

- RF Cable Assemblies
- Power Cable Assemblies
- SFP28 and QSFP28 DAC Cables
- Cat 5e Cable and Jumpers
- FTTA/PTTA Cable Solutions

Optical Solutions

- SFP28 and QSFP28 Optical Transceivers
- IP Industrial Optical Jumpers
- Hybrid Power and Data Assemblies (FTTA/PTTA)
- I-temp 25G SFP28 (500m/2km/10km/20km)
- I-temp 25G BiDi SFP28 (2km/10km/20km/30km)
- I-temp 100G LR QSFP28 (2km/10km/20km)
- I-temp 10G DWDM SFP+
- I-temp 25/50/100G DWDM QSFP28
- I-temp Thin Film Filter/AWG-based CWDM/DWDM Mux/Demux, Add/Drop
- PLC Splitters
- Optical Circulators for Single Fiber Bi-Directional Transmission



SFP28 and QSFP28 Optical Transceiver



BiDi Transceiver



Solutions for Mobile Backhaul

Molex Optoelectronic Solutions provide quality assurance while enabling upgrades to 5G platforms. We are driving industry standards to streamline capabilities and accelerate new advancements in high-speed data connectivity and performance.

- SFP28 and QSFP28 DAC Cables
- 10G ER/ZR SFP+
- 50G/100G LR QSFP28
- 10G DWDM SFP+
- 25/50/100G PAM4 DWDM QSFP28
- Thin Film Filter/AWG-based CWDM/DWDM Mux/Demux, Add/Drop
- Optical Amplifiers
- Transport Boxes
- ROADM



Industrial Optical Jumpers

Solutions for RAN, Mobile Switching Centers (MSC) and Core

To meet growing speed requirements and the evolution of cloud storage, Molex offers high-density connectors, multiple cable configurations, storage acceleration and integrated specialty components for a complete solution.

- Optical Jumpers
- Optical Patch Cords
- WDM Systems
- Optical Backplane
- Optical Patch Panel/Shuffle Boxes
- Optical Taps
- 50G Transceiver
- 100G QSFP28
- 25/50/100G DWDM QSFP28
- BiPass I/O High-Speed Solutions
- Magnetic Jacks (ICM Stacked)
- Open Rack Impel Cable (Open19)
- Memory Sockets
- FPGA Solutions
- 3D Packaging



ROADM



Impel Open19 Cable



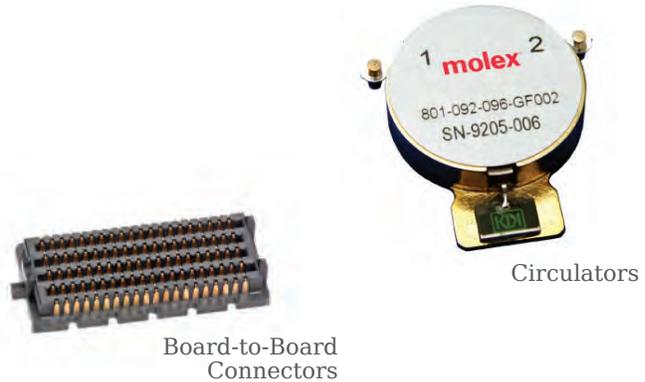
Optical Shuffle Box

A FULL RANGE OF OPTIONS FOR YOUR TELECOM SOLUTION

Components for Remote Radio Units (RRU)

Molex provides today's leading Remote Radio Head (RRH) and Microwave Link technologies to facilitate smooth communication with reliable signal integrity. Our telecom solutions integrate cutting-edge coaxial transmission line elements, RF isolators/circulators, power connectors, RF, high-speed cable assemblies and fiber optic solutions.

- Filters
- Isolators and Circulators
- RF Connectors
- Circular Power Connectors
- I/O Connectors
- BiPass I/O High-Speed Solutions
- Board-to-Board Connectors
- Factory Fit RF Jumper Cables



Components for Active Antenna Units (AAU)

Fast-evolving wireless technology requires continuous modernization, with upgrades, overlays and maintenance that create complex supply chains — and the potential for interference. Molex can streamline the process with solutions that let you focus on deployment and profitability.

- Filters
- Isolators and Circulators
- RF Connectors
- Circular Power Connectors
- I/O Connectors
- BiPass I/O High-Speed Solutions
- Board-to-Board Connectors





Components for Base Band Units (BBU)

Molex is leading the way to tomorrow's ultra-fast networks. Our complete telecom and networking solutions minimize space by integrating RF, optical and backplane into a solution that's fully customized for your project.

- RF Connectors
- I/O Solutions (SFP28/QSFP28/QSFP-DD)
- Magnetic Jacks
- Memory Sockets
- FPGA Solutions

Components for Small Cells

Network data usage continues to grow, especially in localized, high-density areas like public buildings, arenas, transit stations and airports. Molex telecom infrastructure solutions integrate filters, isolators and circulators for dependability and performance that help resolve coverage and capacity challenges.

- Filters
- Isolators and Circulators
- RJ45/Magnetic Jacks



SFP28/QSFP28/
QSFP-DD



Memory Sockets



Magnetic Jacks

The Molex Approach

At Molex, we take a multidimensional, consultative approach to bring your telecom infrastructure to life. With reliable technologies that are backed by Molex performance and quality, our global team of experts will work with you at every step to develop a comprehensive solution.

Let us help reimagine your telecom infrastructure.
Visit www.molex.com/ind/telecominfrastructure

