



# Deliver Reliable Wireless Service On-the-Go with SOLiD Connectivity

Transportation hubs place high-traffic demands on communications networks. When transit passengers gather in a crowded terminal or underground subway, cellular signals become blocked and local wireless networks are easily overloaded, particularly during peak travel times.

Today's passengers expect to stay connected with business associates, friends, family, and streaming media, no matter which mobile network provides their service. Yet, capacity constraints and spotty coverage lead to degraded quality of service, missed calls, dropped connections, and disgruntled passengers.

Even more importantly, public safety personnel, first responders, and transit staff rely on secure, mission-critical connectivity to do their jobs. Whether in a crowded train, airline terminal, or a subterranean subway, emergency personnel need reliable wireless reception over multiple frequency bands and private two-way radio transmissions to maintain a safe environment.

## Keep transit passengers, staff, and public safety personnel connected everywhere with SOLiD ALLIANCE 5G Distributed Antenna Systems

The SOLiD ALLIANCE 5G Distributed Antenna System (DAS) solution enables multi-operator mobile device connectivity with maximum design flexibility and scalability for easy upgrades and long-term value. SOLiD mass transit solutions create a seamless, on-the-go experience that keeps travelers connected wherever they roam.



Faster Speeds



More Capacity



Expansion Capability for Future Bands



Multi-Operator Support

**SOLiD™**

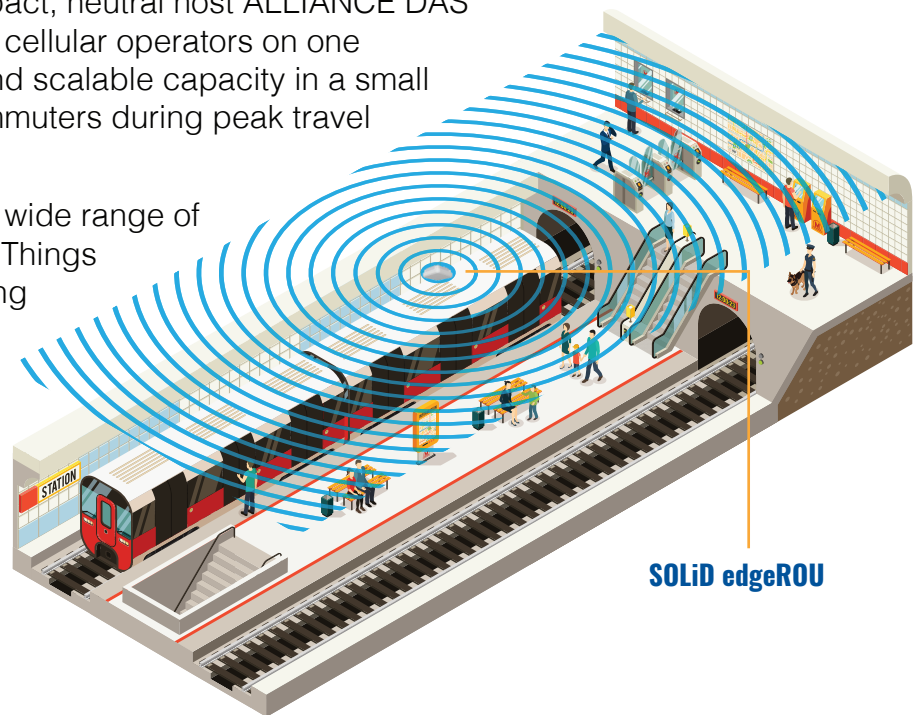
**SOLiD**

## Smart Connectivity for Today's Transit Hubs

Pervasive cellular communications delivery is particularly challenging in transportation hubs like subways, train stations, and airports with stringent space, environmental, and reliability requirements. These hard-to-serve spaces include expansive passenger terminals with high ceilings and wide-open areas, as well as subways and rail tunnels weaving through subterranean environments that entirely block outdoor cellular connections.

To withstand these harsh environments, SOLiD offers ruggedized DAS equipment in UL50E Type 4X enclosures to minimize space requirements and maintenance costs. SOLiD's compact, neutral host ALLIANCE DAS platform supports multiple commercial cellular operators on one platform, delivering broad coverage and scalable capacity in a small footprint to serve dense crowds of commuters during peak travel times.

ALLIANCE DAS equipment supports a wide range of technologies, including 5G, Internet of Things (IoT), and private cellular networks using the Citizens Broadband Radio Service (CBRS) spectrum. This flexible, modular platform also offers dedicated wireless bandwidth for backend operations to enable increased staff productivity with greater control over coverage, location, and quality of mobile signals.



## Mass Transit Experts Rely on SOLiD ALLIANCE 5G DAS

SOLiD's carrier-grade, in-building DAS equipment supports uninterrupted mobile connectivity in many of the world's largest and busiest transit systems. These include New York City's MTA subway, the busiest subway in the U.S. with 5.3 million riders each weekday; the London Underground, which is the oldest underground in the world; the Seoul Metro, the world's longest subway; the Tokyo Metro, with the world's highest usage at more than 8 million riders per day; and many major international airports.

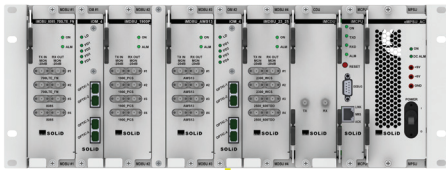
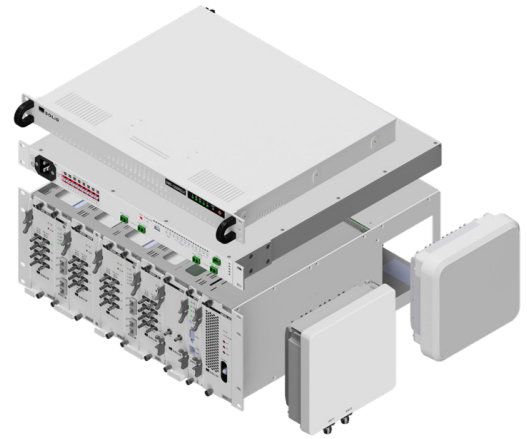




## SOLiD ALLIANCE FIBER2ANTENNA DAS

### FIBER-to-the-EDGE Architecture

An easy-to-install, in-building cellular solution that provides reliable connectivity throughout transit stations, airport lounges, and retail spaces. The SOLiD ALLIANCE neutral-host DAS supports multi-operator commercial cellular and public safety services on a single modular platform with very low latency, reducing the number of base station locations necessary for large transportation networks to enable significant cost savings.



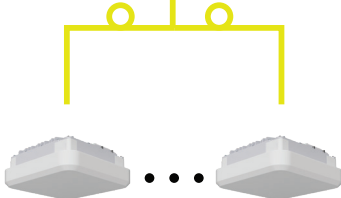
### ALLIANCE iBIU

The integrated base station interface unit (iBIU) is the head-end for the signals provided by every carrier network. Each signal is combined into an optical signal and distributed over fiber optic cables throughout the building. Each iBIU supports up to 16 edgeHUBs.



### FIBER2ANTENNA edgeHUB

The edgeHUB receives optical signals from the iBIU and distributes them to multiple remote units on each floor. Each edgeHUB supports up to 16 edgeROUs.



### FIBER2ANTENNA edgeROU

The edgeROU is a remote unit that easily mounts on a wall or ceiling with a small, inconspicuous footprint. It converts the optical signal into radio frequencies before amplifying and broadcasting them, covering up to 30K square feet.

The logo for SOLiD, featuring the word "SOLID" in white, uppercase letters on a blue square background.

SOLID ALLIANCE FIBER2ANTENNA DAS

## FIBER-to-the-EDGE Architecture



### ALLIANCE MROU

The ALLIANCE Mid-Power Remote Optic Unit (MROU) platform efficiently delivers wireless RF signals into any indoor or outdoor location that is difficult to cover with traditional macro networks, such as long tunnels and passenger terminals.



### ALLIANCE MPROU

The ALLIANCE Multi-Power Remote Optic Unit (MPROU), which was originally developed for subway projects, supports all commercial bands from 600 to 2700 MHz with output power levels optimized for bandwidth and frequency.



### ALLIANCE HROU 4000

The ALLIANCE High Power Mid-Band Remote (HROU\_4000) efficiently delivers the fully occupied 5G bandwidth offered by C-Band 3.45-3.55 GHz and 3.7-3.98 GHz.



## Meet Growing Demands for On-the-Go Connectivity

Today's commuters expect seamless, high-capacity mobile service everywhere, no matter which wireless service provider they use. Whether streaming a movie or webinar in the terminal, or sending a quick text on the subway platform, transit passengers want to remain connected with business associates, friends, family, and streaming media. Even more importantly, transit staff and public safety personnel rely on rock-solid connectivity to do their jobs and maintain a safe environment at all times.

### Are you ready to meet the need for always-on connectivity?

The portfolio of innovative SOLiD DAS and Optical Network solutions are designed to cost-efficiently address the dynamic demands for voice, data, and public safety communications in high-traffic venues while optimizing resources.



#### Upgrade the Passenger Experience

Passengers expect uninterrupted communication and access to media-rich content from the parking lot, to the concourse, to the aircraft jet way.



#### Boost Public Safety Support

Reliable connectivity is essential for public safety personnel to do their jobs and maintain a safe environment.



#### Keep Staff Connected Everywhere

Transit staff require 24x7 communications everywhere they work — above ground, underground, within all stations, and across all platforms.



#### Fortify Mission-Critical Security

Wireless connectivity is paramount for security personnel to ensure the safety of passengers and staff at all times.

## Unmatched Connectivity. SOLiD Coverage.

SOLiD designs and delivers top-tier cellular communication solutions for challenging indoor and outdoor venues worldwide. By innovating best-in-class mobile coverage, we keep your tenants connected to their business, family, and digital media, no matter the environment.

To learn more about our unmatched cellular coverage solutions, visit [solid.com/us/](https://solid.com/us/) or contact us at:

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