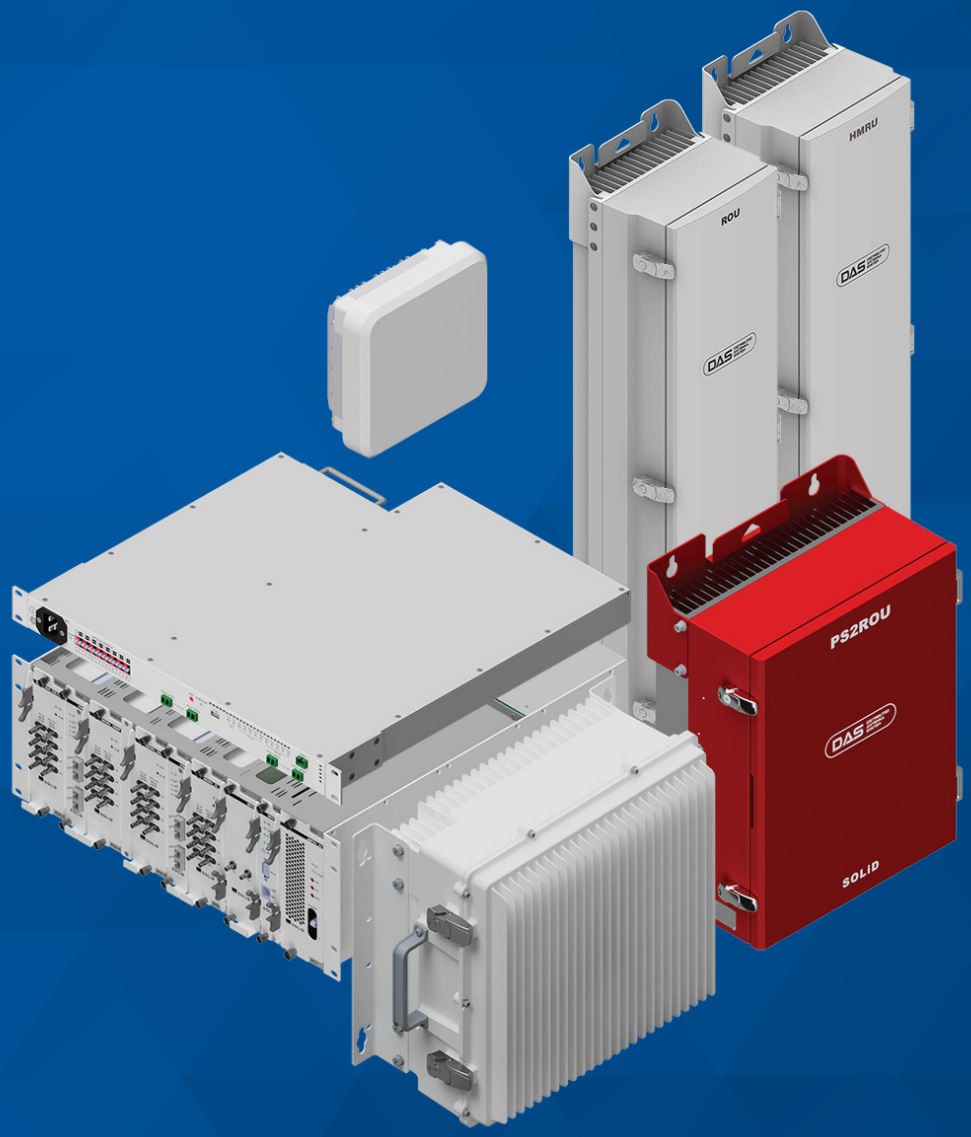
SOLiD ALLIANCE DAS

INTEGRATED <1W, 2W, 5W, 20W and 40W COVERAGE AND CAPACITY



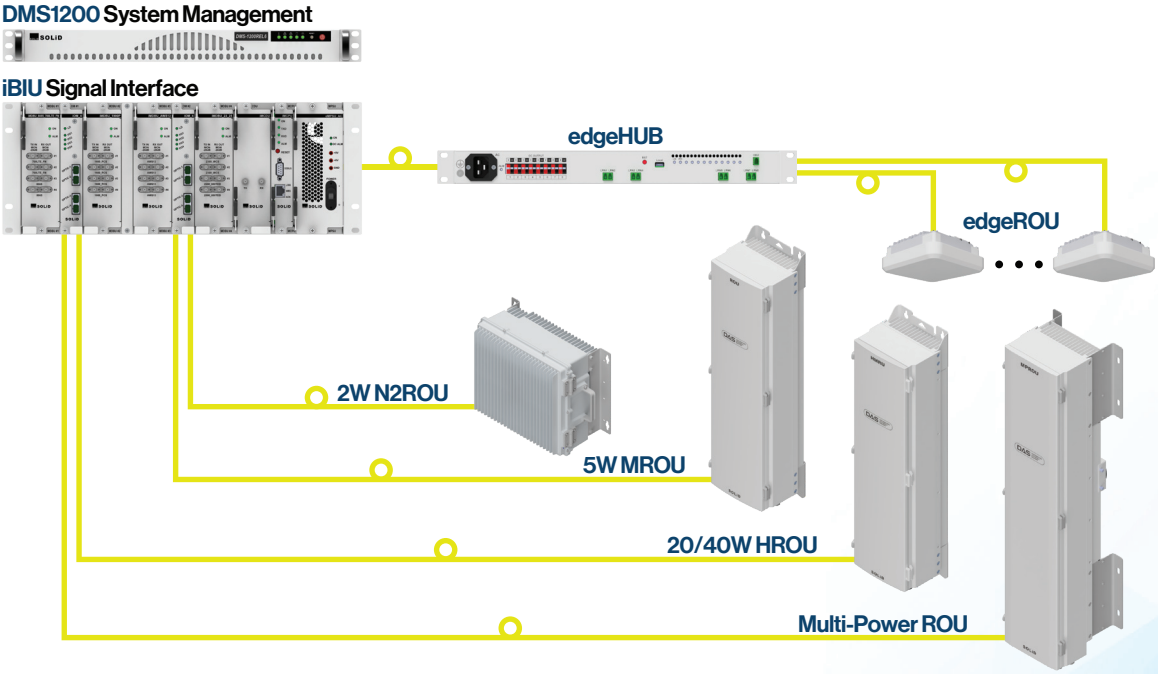
A modular, multi-operator DAS solution that supports public safety communications, 2-way radio, and commercial wireless services - all delivered over a single fiber and common headend.

SOLiD

solid.com

ALLIANCE DAS can be efficiently expanded from one building to many others using SOLiD iOEU optical multiplexing devices. Each expansion link requires only a single strand of fiber.

SOLID ALLIANCE MULTI-OPERATOR DAS TOPOLOGY OVERVIEW



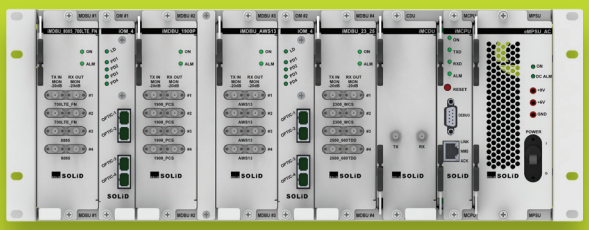
The ALLIANCE platform is SOLiD's multi-operator, neutral host Distributed Antenna System (DAS), which efficiently delivers wireless RF signals into buildings, campus environments, stadiums, airports, or any location that is difficult to cover with outdoor macro wireless networks.

ALLIANCE DAS supports a broadband frequency range from 150 MHz to 4 GHz to provide coverage for public safety communications, 2-way radio, and commercial wireless service providers.

SOLiD ALLIANCE <1W, 2W, 5W, 20W and 40W DAS systems are built utilizing SOLiD components and amplifiers that are engineered to work together seamlessly. This leads to highly flexible designs, deployments that save power and space, and reduces the total cost of ownership.

SOLiD ALLIANCE MULTI-CARRIER DAS

EFFICIENT, MODULAR, POWERFUL



ALLIANCE iBIU

(INTEGRATED BASE STATION INTERFACE UNIT)

The central input point (headend) for all signals delivered over the DAS. In the iBIU, each signal input is independently filtered, attenuated, and controlled.

ALLIANCE DMS

(DAS MANAGEMENT SYSTEM)

The alarming, diagnostic, and control interface for the SOLiD DAS. The DMS provides network intelligence for comprehensive DAS management.

ALLIANCE iODU

(INTEGRATED OPTICAL DISTRIBUTION UNIT)

Performs RF to optical conversion and transports these signals over long distances while minimizing loss. The iODU is co-located with the iBIU from which it receives power and RF communication.

ALLIANCE iOEU

(INTEGRATED OPTICAL EXPANSION UNIT)

An optical multiplexing device used to efficiently extend the DAS from one building to many others.

ALLIANCE ROU

(REMOTE OPTICAL UNIT)

Available in 2W, 5W, 20W and 40W versions, the ROU receives optical signals from the headend, converts these to RF, amplifies them, and then combines the RF for transmission to one or more antenna ports.

ALLIANCE PS2ROU

(PUBLIC SAFETY 2W REMOTE UNIT)

Designed with a rugged enclosure to meet the latest fire codes and dedicated to supporting public safety, paging and 2-way communications.

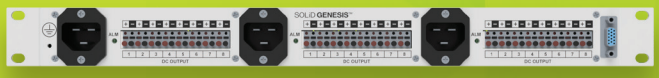
SOLiD ALLIANCE FIBER2ANTENNA DAS

FIBER-TO-THE-EDGE ARCHITECTURE

ALLIANCE edgeHUB

(EDGE HUB UNIT)

Transmits optical signals from the headend and provides power to the edgeROUs.



ALLIANCE EPSU

(EXPANSION POWER SUPPLY UNIT)

Powers edgeROUs that can't be powered directly from the edgeHUB.

ALLIANCE edgeROU

(EDGE REMOTE OPTICAL UNIT)

A small footprint allows for flexible mounting on a wall or ceiling. Flexible deployment options. Available in four versions depending on band requirements. Internal or external antenna options available depending on version.

Deployment Options

- **Each main edgeROU connects via fiber to an edgeHUB**
- **Two main edgeROU may be cascaded – placed in separate locations and share a single optical port at the edgeHUB**
- **Add-on edgeROUs connect to main edgeROUs via short coaxial jumpers**
- **The C-Band MIMO edgeROU functions either as a main edgeROU or as an add-on edgeROU with the Main 700 / 8085 / PCS / AWS edgeROU**

Versions

1: **Main 700 / PCS / AWS / 2500T**
Add-on 600 / 8085 / WCS / CBRS

2: **Main PCS / AWS / WCS / 2500T**
Main 600 / 700 / 8085 / CBRS

3: **Main 700 / 8085 / PCS / AWS**

4: **Main C-Band MIMO (3700-3980 MHz)**
Addon Lower C-Band MIMO (3450-3550 MHz)

sales@solid.com 888.409.9997

SOLiD

solid.com