i-POITM
Intelligent Point Of Interface

The smart, streamlined base station interface solution for distributed antenna systems.
Take control over BTS conditioning and PIM with the space-saving CommScope Intelligent Point of Interface

The demand for wireless connectivity is more intense than ever. Customers today expect coverage everywhere, at any time — even deep inside buildings or in stadiums packed with thousands of other wireless users.

That surge in demand for indoor wireless coverage has presented distributed antenna system (DAS) engineers with some daunting challenges:

• How can you build a universally compatible DAS with adequate coverage and capacity for all wireless service providers?

• How can you fit all the base transceiver station (BTS) interface components when installation space is limited?

• How can you balance signals from multiple operators using different technologies, ensuring that power is properly allocated between them all?

• How can you ensure reliability and avoid passive intermodulation (PIM) issues, while also minimizing commissioning and maintenance costs?

Intelligence is the answer.

Typical BTS-to-DAS interface solutions consist of a patchwork of multiple discrete components. This requires a great deal of installation space, as well as extensive cabling. It can also result in PIM issues, because the components are usually sourced from multiple vendors, and therefore are not always designed to work together.

Such solutions also offer no simple way to monitor and correct BTS conditioning. This complicates troubleshooting, making it harder to identify and resolve small issues before they become big, expensive repairs.

For more information, visit commscope.com
The answer to these challenges is clear. It’s time for an intelligent interface solution that provides BTS conditioning visibility, reduces PIM, and integrates multiple functions into a single, space-saving module that’s simple to install and cost-effective to maintain.

**It’s time for the CommScope i-POI™**

The CommScope Intelligent Point of Interface (i-POI) is an integrated BTS interface solution that takes the guesswork and expense out of system commissioning and maintenance. Whether you’re building a new DAS or upgrading an existing system, the CommScope i-POI is powerful and flexible enough to be the foundation of your network.

**The i-POI combines:**

- BTS conditioning
- signal splitting and combining
- monitoring
- test options
- remote monitoring
- automatic power leveling
- E911 interface

By combining all of these functions in a single, intelligent module, the i-POI lets you monitor and control BTS conditioning both on-site and remotely — a feature no other solution offers. Its unique design ensures optimal signal quality, minimizes PIM and simplifies commissioning and maintenance, with a footprint that’s up to 75% smaller than typical BTS interface implementations.

Compatible with multiple wireless technologies including GSM, CDMA, UMTS and LTE, the CommScope i-POI was developed in conjunction with major wireless operators around the world, specifically to solve the challenges facing DAS engineers and operators. It has universal application with all DAS systems, and it works particularly well with CommScope ION™-M and ION™-B systems.
Intelligent, reliable and integrated: the i-POI improves the performance of any distributed antenna system.

Until now, no BTS connectivity solution could address the competing challenges facing DAS engineers and operators. That’s what makes the i-POI revolutionary: it’s the only integrated BTS interface solution that combines intelligent performance monitoring, automatic power levelling, remote control and exceptional PIM performance, all within a dramatically reduced footprint.

The only intelligent BTS interface on the market.

The i-POI boasts a long list of intelligent features that simplify maintenance and troubleshooting, helping you identify and solve problems faster. That reduces repair and maintenance costs, and ensures a consistently high quality of service.

Each i-POI unit features a built-in signal generator that can be tuned to any frequency within its bandwidth. That makes system commissioning and field strength testing possible without the need for additional equipment.

The i-POI also automatically monitors and maintains correct allocated power across multiple BTS units from different wireless operators. Simply program the desired power level for each operator, and the built-in RSSI detectors will continuously measure the input and output power of the uplink and downlink signals. If the BTS input level exceeds the defined threshold, the i-POI automatically compensates the input and triggers an alarm.

Enjoy total control, both on site and remotely.

For on-site commissioning and maintenance, each i-POI module features a front-panel color display and control dial. But what makes the i-POI truly revolutionary is its remote control capability. The i-POI interface card has a built-in web server with a LAN connection, which enables remote control using system management software such as AIMOS or SMNP traps. So all the i-POI’s functions can be accessed both on-site and remotely, including power attenuation settings and alarms.

That unique remote control functionality—only available on the i-POI—means that problems arise, they can be diagnosed and corrected remotely, reducing the need for costly field service.
Engineered for high performance and low PIM.

The i-POI uses DIN connectors rated for high power, and it features a unique linear design. The combination minimizes PIM and ensures optimal signal quality. This not only provides more reliable performance, it also reduces installation and maintenance costs, because the need to configure multiple different components is eliminated.

Integrated design reduces space requirements up to 75%.

The i-POI replaces cumbersome, multi-component interfaces with a single, sleek module that’s much smaller than other interface solutions. In fact, you can fit up to 8 i-POI modules in a single subrack.

The results can be dramatic: the i-POI can reduce rack space requirements up to 75%, making it the perfect choice for venues that restrict wireless infrastructure space.

With its small footprint, the CommScope i-POI gives you more room to fit other essential components. And its plug-and-play functionality makes it simple to install new modules, with no need for external splitters, couplers or terminators.

Amazing things come in small packages.

If your venue demands top-of-the-line network performance, but your budget demands bottom-line value, look no further than the CommScope i-POI. It offers a unique combination of intelligence, simplicity and compact size delivering reliable, high quality of service while reducing maintenance costs.

With the i-POI on the job, the days of frustrating and costly BTS conditioning and PIM issues are over.

It’s the only BTS interface that puts you in total control.
The Intelligent Choice

CommScope is the trusted leader in DAS design and implementation.

CommScope sets the worldwide industry standard in DAS technology—literally. Many of the custom solutions we’ve developed for our customers have gone on to become the standard industry spec.

With a 75-year record of innovation, and more DAS deployments around the world than any other provider, CommScope has the expertise, the resources, and the global supply chain to deliver the right DAS solution for virtually any venue, anywhere in the world.

Our DAS solutions have been chosen for dozens of challenging, high-profile projects around the world, from the 2010 World Cup Stadium in South Africa to Burj Khalifa, the world’s tallest building in Dubai, to the world’s most famous arena, Madison Square Garden in New York. Our solutions perform flawlessly and reliably in some of the world’s most demanding environments — a key reason why CommScope is the first choice when network performance is a priority.

We’re invested in the future of wireless.

With technology rapidly advancing, it’s more critical than ever to anticipate what’s next. That’s where CommScope’s deep expertise works for you. We engineer our products with an eye toward the future, to help ensure that your network will work as reliably as possible.

We’re always two steps ahead – and that helps keep your network ahead of the curve. Our “future proof” approach contributes to a lower total cost of ownership for your network, because our solutions won’t become obsolete before their time.

One trusted resource for all your needs.

Our engineering and design expertise lets us deliver solutions to meet a wide range of network requirements. We manage and support through every phase of design and implementation, including full project management and general contracting services.

In addition to our extensive in-house capabilities, CommScope offers various services directly and through our CommScope BusinessPartners. For many of our customers, BusinessPartners are critical problem-solvers who leverage CommScope technology to deliver real-world solutions that make a difference in your business. We’re so confident that we can deliver those solutions that we offer a warranty on all of our work. To learn more about CommScope, please visit 

For more information, visit commscope.com
Let our unmatched expertise improve the performance of your DAS.

Take control of PIM and improve system performance with the next generation of intelligent BTS interface technology: the CommScope i-POI.

Contact CommScope today for an expert consultation about integrating the CommScope i-POI into your venue’s DAS.

Visit our website or contact your local CommScope representative for more details.
We’re proud to be a part of your network’s story.

Here at CommScope, we embrace our role as a trusted resource, partner, and facilitator. We create the infrastructure that connects the world and evolves with every advance in technology. By investing all of our capabilities, resources, relationships, and products into your toughest challenges, we continue our long history of solving problems together—paving the way for new ideas and fresh ways of thinking.

We’re a trusted resource and partner around the world because we’re invested in you: your people, your networks, your success. It inspires us to build relationships and infrastructure… connect people and technologies across protocols, oceans, and time zones… and share what we learn along the way. We’ll never stop connecting and evolving networks for the business of life at home, at work, and on the go.

This is our promise to you. This is CommScope.