



LEADING PROVIDER OF ANTENNAS & RF CONDITIONING SOLUTIONS

SINCLAIR
A DIVISION OF NORSAT INTERNATIONAL INC.

WHO WE ARE

Sinclair Technologies is a global leader in the manufacture and distribution of high-quality fixed and mobile antennas, filters, receiver multicouplers, transmitter combiners and related components. Designed to function in extreme weather conditions, Sinclair's products

enjoy a reputation for high performance, reliability, durability and value.

At Sinclair we strive to exceed customer expectations. Our responsive and dedicated team aims to deliver best in class products and services to each and every customer.

“To be the premiere provider of innovative communication solutions for remote and challenging applications.”



HIGH PERFORMANCE PRODUCTS

The innovative and rugged design of Sinclair products lead to better performance and longer durability.

This ensures smooth operation and ease of maintenance for the customer's wireless network.

EXTENSIVE PRODUCT LINE

From broadband dipole antennas to ceramic transmitter combiners, Sinclair continues to lead the industry in providing a full range of products with rich features to meet customer's demanding specifications.

FULL CUSTOMIZATION FLEXIBILITY

Sinclair's dedicated engineering team can design custom solutions to fulfill the customer's unique site specific requirements.

LONG TIME TRUSTED PARTNER

With 60+ years of experience in the wireless communications industry, Sinclair is proud to partner with our customers to provide highly reliable solutions for the land mobile industry.

SINCLAIR BY THE NUMBERS



9+ Sales offices worldwide in North America and Europe.

15+ Global Distribution Locations: South America, Europe, Africa, Asia and Australia.

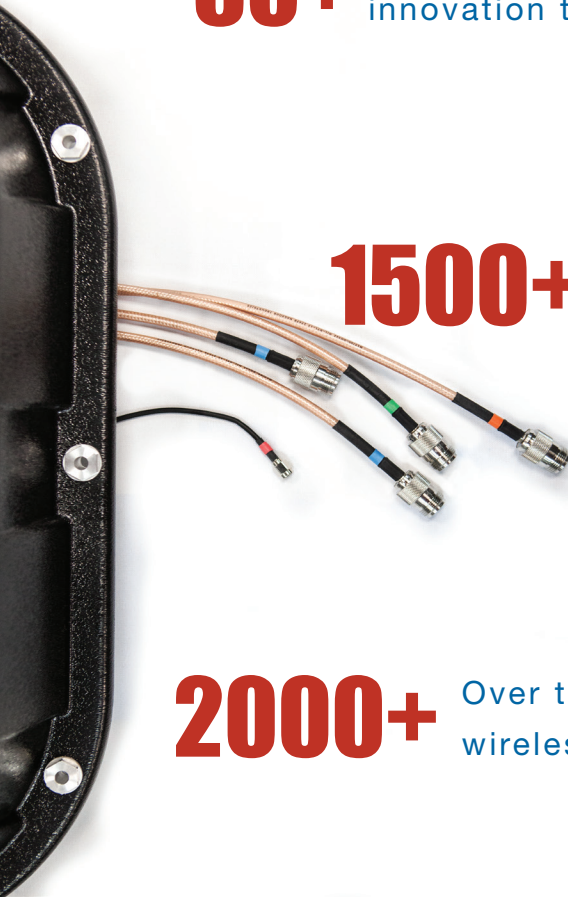


60+ Years of antenna and filter system design and innovation to our global customers.

1500+ Over fifteen hundred clients are served annually globally.



2000+ Over two thousand Sinclair products to serve your wireless needs.



MARKETS SERVED



PUBLIC SAFETY

Sinclair products have been widely deployed in a full range of mission critical communication networks to provide emergency and secure communication service in public safety fields, including Fire, Medical, Police and other government agencies.



UTILITIES

Sinclair understands how essential reliability and durability are for SCADA, AMI and smart grid communications. With Sinclair's rugged, high quality products, customers can be assured of highly reliable wireless network performance.



TRANSPORTATION

Broadband, compact and low profile antennas & filters from Sinclair are the perfect solution fitting urban transit vehicles such as buses, street cars, light rail and trains. Sinclair antenna and filter products provide solutions for data collection, tracking and controlling on a real-time basis, and supporting multiple services.



OIL, GAS AND MINING

Sinclair low PIM and heavy duty products fully meet the extreme environmental conditions found in resource industries by providing seamless service in remote and challenging applications.



SPECIALIZED NETWORK APPLICATIONS

Sinclair's dedicated engineering team provides customized solutions to meet customers' unique requirements in various situations.



PRODUCTS & SYSTEMS

Sinclair Technologies is recognized globally as an industry leader in the design and manufacture of high quality base station antennas, filters, receiver multicouplers, transmitter combiners and customized RF base stations combining systems.

1 Low PIM Dipole Antennas

Base Station VHF, Tetra and UHF low PIM antennas are ideally suited for multi-coupled systems. Available in single, two, four, or eight-bay configurations with gain values between 2-11.5 dBd. Low PIM dipole antennas are available with bi-directional or offset patterns. Multiple ports and stacked configurations are also available.

2 High Performance Fiberglass Collinear Antennas

These are designed to withstand severe environmental conditions and are used world-wide. Offering omni-directional coverage, these antennas have gain values between 0-11.5 dBd, and cover frequency bands between 138-960 MHz. Low PIM rated antennas are also available.

3 Enclosed Dipole Array Broadband Antennas

These versatile antennas, covering the entire 746-960 MHz, are well suited for applications requiring specific coverage patterns. The reflector model allows for adjustable horizontal beam widths to optimize signal coverage.

4 Panel Antennas

Panel antennas are designed to offer high performance in a lightweight and sturdy radome. These circular polarized, vertical polarized or dual cross-polarized antennas are ideal for sector coverage in the 380-512 MHz range.

5 Excelsior™ Mobile Antennas

Sinclair's mobile antennas are built to last. They feature a rugged ABS housing and stainless steel fittings and cover frequencies between 40-970 MHz. These highly robust antennas feature an integral gasket which prevents water ingress.

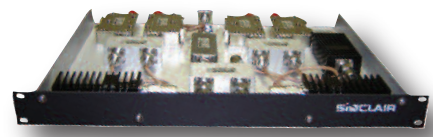
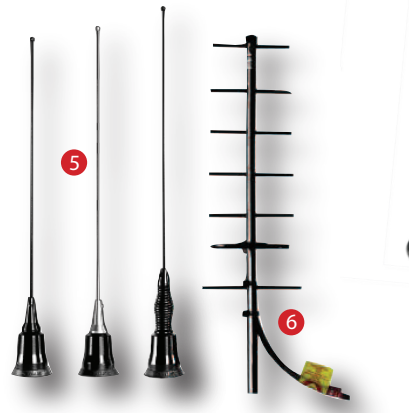
6 YAGI Antennas

Sinclair offers a wide range of reliable and resilient directional yagi antennas that operate in various frequencies between VHF and 1 GHz. Anodized and alodine coated models are available.



7 High Performance Transport Antennas

Sinclair offers a full suite of high performance transport antennas. Our SM series, ST421R and StealthWave™ series of antennas are the best in class and are ideal for a diverse range of transportation applications in the VHF to 6GHz range. The SM2600D is a low profile, multi-functional broadband transportation platform which can be populated with multi-ports.



8 Excaliber™ Rail and Transport Antennas

Low profile, cast aluminum or radome-enclosed VHF, Tetra, UHF, and 800-900 MHz band antennas are designed for vehicles, buses, trucks, trains and other heavy transportation applications. The VHF, Tetra and UHF Excaliber™ antennas have become the global standard for railroad locomotive service in the 138-512 MHz frequency range.

9 Log Periodic/Data Antennas

Designed for use in data systems, these rugged but lightweight antennas operate in the 800-1000 MHz frequency range.

10 Expandable Multi-couplers

Sinclair's two key architectures, Pass-Reject C series and Pass-Thru CS series, provide a wide range of expandable multicoupling solutions for frequencies between 132-512 MHz.

11 Compact Combining Solutions

Sinclair offers a variety of space saving, compact hybrid ferrite transmitter combiners for combining closely spaced transmitter frequencies. Assembled in a 1U tray, the new TCC series allows 2 or 4, 60-Watt transmitters to be combined with one antenna. The TC series transmitter combiners are able to combine 125-Watts per channel.

12 Mobile Duplexers

Compact, lightweight and housed in a durable aluminum extrusion, these units are available in frequency ranges between 138-960 MHz.

13 Base Station Duplexers

Sinclair's Q-Circuit reject and band pass designs, coupled with either our proprietary Res-Lok modular extrusion or standard 7" cavities, create a series of extremely versatile duplexers that offer exceptional performance in frequency ranges between 66-960 MHz.

14 Tower Top Amplifiers

Designed to enhance receiver system sensitivity by compensating for losses encountered in long feed cable runs, these units are available in the 776-901 MHz frequency range. The test port and Ethernet connection allow for remote control and monitoring.

15 Cavity Ferrite and Trunking Transmitter Combiners

Sinclair's TJ, TN and RTC can combine up to 20 channels to a single antenna for use in systems between 132-960 MHz.

16 Receiver Multi-couplers

Designed to conserve valuable tower space and decrease system maintenance costs by allowing between 2-32 channels to be connected to a single antenna line for frequencies between 138-960 MHz. Available with various power supply and pre-selector options.

17 Custom Antenna Combining Systems

Our customized RF multicoupler systems utilize Sinclair's high quality components to develop complex combining systems based on client's unique needs and requirements.

18 Ceramic Transmitter Combiner

Thanks to the ultra high ceramic resonator, the Sinclair ceramic combiner features a compact and lighter configuration with minimum channel spacing and lower insertion loss and supports up to 12 channels with field tunable capability.



SINCLAIR TECHNOLOGIES

Sinclair Technologies is a global leader in the design and manufacture of high-quality fixed and mobile antennas, filters, combiners, and related products. Designed to function in extreme conditions, Sinclair's products have a globally recognized reputation for quality, reliability, durability, and value. For over 60 years, Sinclair has provided custom-designed antennas and RF signal conditioning products to fit our customer's unique requirements. From simple to complex issues, Sinclair offers antenna and RF signal conditioning solutions for utilities industry paired with the industry's best RF expertise.

CONTACT

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