Welcome to Sinclairity!

Inside this issue

ABOUT THIS IMAGE

A special anniversary banner designed by Valerie Sinclair on the occasion of Sinclair's 60th anniversary.

Announcement

Sinclair Joins Hands with Norsat International

Effective January 2011- Sinclair Technologies has joined hands with Norsat International Inc.
Founded in 1977, Norsat is a leading provider of broadband communication solutions that enable the transmission of data, audio and video in remote and austere environments. Norsat is a Toronto Stock Exchange (TSX) listed company. Its products and services include microwave components, portable satellite systems, maritime solutions, wireless networks solutions, equipment financing and engineering consulting.

Joining Norsat, provides Sinclair with increased market penetration, especially in the satellite-based communications and military arenas.
As there will be no operational or staff-related changes, our customers can expect the same high quality Sinclair brand products and dedicated service in the future.
Norsat is headquartered in Vancouver B.C, for more information please visit: www.norsat.com.

VISIT US AT IWCE 2011

MARCH 9 2011- MARCH 11 2011

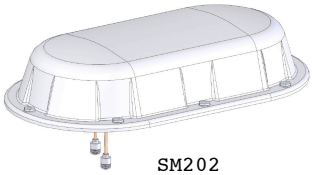
LAS VEGAS CONVENTION CENTRE

BOOTH # 5089

New Product Showcase

1- SM202 Low Profile Transport Antenna

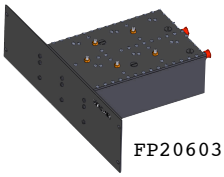
Sinclair's new low profile, transport antenna is a dual port, dual band, multifunctional antenna that covers the full range between 350-2500 MHz and a 2 MHz range between 138-230 MHz. The SM202 series antenna is ideal for wireless coverage for transportation applications. This antenna features a discrete multiple band radiating element incorporated in a low profile housing, perfect for mounting on a typical metal vehicle rooftop. The standard SM202 comes with two ports, one for VHF narrowband and one for UHF to 2.5 GHz wideband applications, which can be used for TETRA400, TETRA800, Trunking systems and governmental services, etc. This expandable port can also support multiple systems simultaneously with Sinclair's cross band combining solutions without causing interference with the existing service.


SM202

The narrow band port covers 138-230 MHz with 2 MHz typical bandwidth that is tuned to a customer specified center frequency. The antenna is fed by two RG303 pigtails with N female connectors. Other connector options are also available. Optional built-in GPS receiving antenna is also available with an additional RG174 pigtail and SMA plug.
For more information please call: 1-800-263-3275.

2- New Compact, VHF, High Performance Filters - FP20603

Sinclair's FP20603 are VHF, low-loss, high selectivity, high power, band pass filters.
Featuring a compact design that mounts into a 19" EIA 3U high rack for single or dual units. These filters cover the 132 to 174 MHz range with 1 MHz or 2 MHz pass bands. Featuring an impressive 150W power handling capability, ideal for filtering both receiving and transmitting channels. They can also be easily paired for duplexing or diplexing applications within the same rack space.

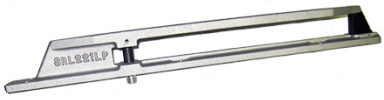

FP20603

For more information please visit: www.sinctech.com or call: 1-800-263-3275.

3- New Additions to the ST221 Series

- New ST221 Antennas Featuring 2 MHz Bandwidth in Band III

Featuring 2 MHz bandwidth in Band III, these low profile mobile antennas are primarily designed for applications where antennas must be installed in a low clearance radio compartment or an antenna radome located on the vehicle's rooftop.


ST221-LP

This new lower profile (LP) version of the ST221 series covers the full 170-225 MHz range.
The ST221-SF2SUF (FXXXX-LP) and ST221-SF2SNF (FXXXX-LP) models cover the 170-195 MHz range and the ST221-SF3SUF (FXXXX-LP) and ST221-SF3SNF(FXXXX-LP) models cover the 190-225 MHz range. Available connector types include: N-Female or UHF-Female. For more information please visit: www.sinctech.com or call: 1-800-263-3275.

- ST221DR-SF1/F3SNM (F1610-F2200)

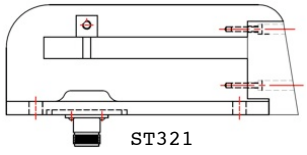
This dual port, dual band antenna is ideal for dual radio systems with space for only one antenna. Featuring a low profile compact design and rugged cast aluminum element with a heavy-duty weatherproofed radome, it also includes the RG303 Pigtail cable with a variety of connector options for flexible implementation.


ST221DR

For more information please visit: www.sinctech.com or call: 1-800-263-3275.

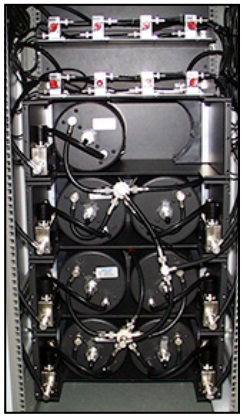
4- UHF Transit Antennas

This compact, low profile antenna features a closed off end and high strength cast aluminum design. A low profile rugged alternative to quarter wave whips. This antenna is an excellent choice for low clearance applications on trains, public transit vehicles, construction equipment and police vehicles, etc. It is supplied with the appropriate hardware to ensure a weatherproofed installation. For more information please call: 1-800-263-3275.


ST321

Tech Bulletin

Factors Affecting System Complexity



Our system engineers are experienced at designing complex customized systems to meet even the most challenging customer requirements. However, in order to obtain the best cost effective solutions, customers must keep in mind several factors that affect the size, complexity and ultimately the cost of a system:

- Number of Channels
The most important factor is the number of channels, which determines the number of signal paths. The complexity of filtering in each path is also set by the need to filter out the noise and carrier from each channel.

- Number of Antennas
The number of antennas also affects the system's complexity. Increasing the number of antennas reduces the amount of combining in the system. Putting transmit and receive frequencies on separate antennas can also reduce the filtering required to protect the receivers from transmitter noise on carriers.

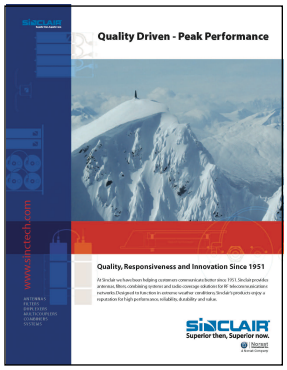
- Choice of Frequency
One of the most important factors contributing to system complexity is the choice of frequency. If the transmit frequencies and receive frequencies are in separate groups then it is possible to protect all the receivers from all the transmitters with a single duplexer. However if the transmit and receive frequencies are mixed together then more filters will be needed and this adds to the complexity and ultimately the cost of the system.

- Choice of Location
Installing a system in an area with heavy radio use can also add to the complexity. The system may need extra filtering to protect the receivers from nearby transmitters. The system may also need to filter its own transmitter noise to prevent interference with neighboring receivers.
For more information and guidance on how to choose an optimal system design, please contact one of our systems engineers in Canada or the U.S at:
1-800-263-3275 or via email:
sysengcan@sinctech.com; sysengusa@sinctech.com.

News-Flash

New Corporate Brochure

Sinclair's latest corporate brochure is now available on our website: www.sinctech.com/resources.aspx. Featuring a new cover image and tag-line, this brochure is designed to present an overview of Sinclair and its products. We have also included two recent case studies that highlight Sinclair's commitment to quality and service. To download the PDF version please go to: www.sinctech.com/resources.aspx. For a print version please email: marketing@sinctech.com.



Test Equipment Check-up Reminder

Your test equipment may be due for an annual check-up. Sinclair's Test Equipment Lab led by Frank Rizzi offers a full range of services, including:
- 5 day turnaround on calibration services
- 90 day Warranty on repairs
- Calibration traceable to the NRC
- Equipment history report
- Advance notice of your next calibration appointment

Call Frank Rizzi today at 905-726-7695 or 1-800-263-3275 Ext. 267 to book your next service appointment.

Upcoming Events

IWCE Expo
March 9-11, 2011
Las Vegas Convention Center
Las Vegas, NV

UTC TELECOM 2011
LONG BEACH, CALIFORNIA

UTC EXPO 2011
May 10-12, 2011
Long Beach Convention Center
Long Beach CA

TETRA WORLD CONGRESS 2011

Tetra World Congress 2011
May 24-27, 2011
Hungexpo Centre
Budapest, Hungary