

RADIO FREQUENCY SYSTEMS

NEXTGEN-TV PRODUCT GUIDE

Edition 1 Rev. B / 5.2020



BROADBAND ANTENNAS FOR SINGLE FREQUENCY NETWORKS

NG Antenna Series

The NG series antennas are ideal for multi-channel Next Generation networks. These antennas are typically deployed at SFN sites that surround the main transmission site in a NextGen single frequency network (SFN). The high-power rating and broadband performance allow multiple channels to be transmitted from an SFN site, thus reducing capital costs and providing consistent coverage across channels. Elliptical or circular polarization is available for improved transmission to portable and indoor devices. The NG family of antennas provide both top mounted and side mounted solutions in a low wind load format. A wide range of radiation patterns are available in formats suitable for direct import into most SFN coverage and planning tools. In addition, the RFS Antenna Selection Tool works alongside modern SFN planning tools to help you choose the right NextGen antenna for each SFN site.

- · Broadband performance for multi-channel SFN networks allows SFN infrastructure sharing and reduces overall CAPEX
- Low wind-load reduces tower loads thus simplifying SFN site acquisition
- · Large range of azimuth radiation patterns simplifies the SFN planning process to provide optimum network coverage
- · Broadband elliptical or circular polarization performance - improves signal penetration and network performance
- Radiation patterns with reduced back-radiation • are available for SFN sites requiring interference mitigation
- AAST Software: Download







180

Directivity = 1.5



Note: Horizontal polarization component is shown on radiation patterns.



TYPICAL AZIMUTH RADIATION PATTERNS

Broadcast Solutions

NEXTGEN TV ANTENNAS

TYPICAL AZIMUTH RADIATION PATTERNS





NGS-C200J



NGS-C210C



Directivity = 2.1

NGP-C315





NGS-C260

NGP-C360





NGP-C190

Directivity = 1.9

NGP-C630



Note: Horizontal polarization component is shown on radiation patterns.



ANTENNAS WITH REDUCED BACK RADIATION

NG-RBL & NG-SBL Series Antennas

These antennas are designed to reduce radiation in the rear direction. For difficult site locations or difficult network planning scenarios, these antenna patterns will enable the network designer to meet the FCC requirements without resorting to large reductions in radiated power. Standard radiation patterns are shown below. Custom radiation patterns are also available. RFS can design a radiation pattern to your requirements using sophisticated design tools to provide the best match to the site planning specification. These patterns are in file formats suitable for direct import into most SFN coverage and planning tools.

- Simplifies network planning for difficult sites
- Can reduce interference without resorting to large reductions in ERP
- Custom radiation patterns can be designed to provide the best match to the site planning specification

TYPICAL AZIMUTH RADIATION PATTERNS





NGS & NGR SERIES ANTENNAS

| Model Number | | NGR-Om | NGS-S180 | NGS-C150 | NGS-C160A | NGS-C170 | NGS-C170-RBL | | |
|------------------------------|-------------|-------------|-----------------|----------------------|-------------------------|--------------------|-----------------------|--|--|
| Pattern type | | Omnioid | Skull | Skull increased rear | Cardioid type A | Cardioid type C170 | Cardioid reduced rear | | |
| Frequency Range (MHz) | | | | 470- | -608 | | | | |
| Bandwidth (MHz) | | 36 | 138 (Full Band) | 138 (Full Band) | 138 (Full Band) | 138 (Full Band) | 138 (Full Band) | | |
| VSWR | | | | 1.15 (1.1 o | n channel) | | | | |
| Polarization | | | | Ellip | tical | | | | |
| Polarization ratio (Vpol ERF | P/Hpol ERP) | | | 30% standard – conta | ct RFS for other ratios | | | | |
| Azimuth pattern directivity | (numerical) | 1.8 | 1.8 | 1.5 | 1.6 | 1.7 | 2.0 | | |
| | 8 Bay | Side or Top | Side or Top | Side or Top | Side or Top | Side or Top | Side or Top | | |
| Mounting Type: | 16 Bay | Side | Side | Side | Side | Side | Side | | |
| | 24 Bay | Side | Side | Side | Side | Side | Side | | |
| | 8 Bay | 8.1 | | | | | | | |
| Elevation Gain at | 16 Bay | 14.8 | | | | | | | |
| 200012 | 24 Bay | 20.0 | | | | | | | |
| Standard input power | 8 Bay | 35 | | | | | | | |
| rating (higher power | 16 Bay | 40 | | | | | | | |
| versions available) (kW) * | 24 Bay | 40 | | | | | | | |
| | 8 Bay | | 14.1 | | | | | | |
| Height (ft) * | 16 Bay | | 28.5 | | | | | | |
| | 24 Bay | | 43 | | | | | | |
| | 8 Bay | | | 52 | 25 | | | | |
| Weight (lb)* | 16 Bay | | | 13 | 70 | | | | |
| | 24 Bay | | | 23 | 15 | | | | |
| | 8 Bay | 15.5 | | | 10.8 | | | | |
| Effective area | 16 Bay | 31.7 | | | 21.6 | | | | |
| | 24 Bay | 46.65 | 32.4 | | | | | | |

| Model Number | | NGS-C170-SBL | NGS-C185i | NGS-C200J | NGS-C210C | NGS-C260 | NGS-C360 | | | | | |
|------------------------------|-------------|---------------------|-----------------|----------------------|-------------------------|----------------------|-------------|--|--|--|--|--|
| Pattern type | | Cardioid suppressed | Cardioid type I | Cardioid type J | Cardioid type C | Cardioid/wide sector | Wide Sector | | | | | |
| Frequency Range (MHz) | | | 470-608 | | | | | | | | | |
| Bandwidth (MHz) | | | | 1: | 38 | | | | | | | |
| VSWR | | | | 1.15 (1.1 c | on channel) | | | | | | | |
| Polarization | | | | Ellip | otical | | | | | | | |
| Polarization ratio (Vpol ERF | P/Hpol ERP) | | | 30% standard – conta | ct RFS for other ratios | | | | | | | |
| Azimuth pattern directivity | (numerical) | 2.0 | 1.85 | 2.0 | 2.1 | 2.6 | 3.6 | | | | | |
| | 8 Bay | Side or Top | Side or Top | Side or Top | Side or Top | Side or Top | Side or Top | | | | | |
| Mounting Type: | 16 Bay | Side | Side | Side | Side | Side | Side | | | | | |
| | 24 Bay | Side | Side | Side | Side | Side | Side | | | | | |
| | 8 Bay | 8.1 | | | | | | | | | | |
| Elevation Gain at | 16 Bay | 14.8 | | | | | | | | | | |
| 5551VII 12 | 24 Bay | 20.0 | | | | | | | | | | |
| Standard input power | 8 Bay | 35 | | | | | | | | | | |
| rating (higher power | 16 Bay | 40 | | | | | | | | | | |
| versions available) (kW) * | 24 Bay | 40 | | | | | | | | | | |
| | 8 Bay | 14.1 | | | | | | | | | | |
| Height (ft) * | 16 Bay | | 28.5 | | | | | | | | | |
| | 24 Bay | | 43 | | | | | | | | | |
| Weight (lb)* | 8 Bay | | | 5. | 25 | | | | | | | |
| | 16 Bay | | | 13 | 70 | | | | | | | |
| | 24 Bay | | | 23 | 315 | | | | | | | |
| | 8 Bay | | | 1(|).8 | | | | | | | |
| Effective area | 16 Bay | | | 21 | 1.6 | | | | | | | |
| curic(It' Z) | 24 Bay | | | 32 | 2.4 | 32.4 | | | | | | |

* Side Mount Antenna



NGP SERIES ANTENNAS

| Model Number | | NGP-Omni -RMS | NGP-Omni-130 | NGP-C190 | NGP-C190-SBL | NGP-C315 | | | |
|-----------------------------|-------------|---------------|---------------------------|------------------------------|--------------------------|-----------------|--|--|--|
| Pattern type | | Omni | Omni filed as directional | Broad Cardioid | Cardioid suppressed rear | Narrow Cardioid | | | |
| Frequency Range (MHz) | | | 470-608 | | | | | | |
| Bandwidth (MHz) | | | | 138 (Full Band) | | | | | |
| VSWR | | | | 1.1 | | | | | |
| Polarization | | | | Elliptical or Circular | | | | | |
| Polarization ratio (Vpol ER | P/Hpol ERP) | | Any ra | tio can be specified at time | of order | | | | |
| Azimuth pattern directivity | (numerical) | 1 | 1.3 | 1.9 | 2.7 | 3.15 | | | |
| | 8 Bay | Side or Top | Side or Top | Side or Top | Side or Top | Side or Top | | | |
| Mounting Type: | 16 Bay | Side or Top | Side or Top | Side or Top | Side or Top | Side or Top | | | |
| | 24 Bay | Side or Top | Side or Top | Side or Top | Side or Top | Side or Top | | | |
| | 8 Bay | 8.1 | | | | | | | |
| Elevation Gain at 539MHz | 16 Bay | 15.3 | | | | | | | |
| 5551VII 12 | 24 Bay | 22.7 | | | | | | | |
| Standard Input power | 8 Bay | 40 | | | | | | | |
| rating (higher power | 16 Bay | 40 | | | | | | | |
| versions available) (kW) | 24 Bay | 40 | | | | | | | |
| | 8 Bay | 17.5 | | | | | | | |
| Height (ft) * | 16 Bay | | 32.6 | | | | | | |
| | 24 Bay | | 47.7 | | | | | | |
| Weight (lb)* | 8 Bay | | 1332 | | | | | | |
| | 16 Bay | | | 2686 | | | | | |
| | 24 Bay | | | 4020 | | | | | |
| F (C ,) | 8 Bay | | | 32.7 | | | | | |
| Effective area | 16 Bay | | | 46.1 | | | | | |
| | 24 Bay | | 85.5 | | | | | | |

| Model Number | | NGP -C315-SBL | NGP-C390 | NGP-C390-SBL | NGP-C630 | NGP-C630-SBL | | | |
|-----------------------------|-------------|------------------------------------|-------------|----------------------------------|---------------|----------------------------------|--|--|--|
| Pattern type | | Narrow Cardioid suppressed rear | Wide Sector | Wide Sector suppressed rear | Narrow Sector | Narrow Sector suppressed rear | | | |
| Frequency Range (MHz) | | | | 470-608 | | | | | |
| Bandwidth (MHz) | | | | 138 (Full Band) | | | | | |
| VSWR | | | | 1.1 | | | | | |
| Polarization | | | | Elliptical or Circular | | | | | |
| Polarization ratio (Vpol ER | P/Hpol ERP) | | Any | ratio can be specified at time c | f order | | | | |
| Azimuth pattern directivity | (numerical) | 3.4 | 3.9 | 4.1 | 6.3 | 6.3 | | | |
| | 8 Bay | Side or Top | Side or Top | Side or Top | Side or Top | Side or Top | | | |
| Mounting Type: | 16 Bay | Side | Side | Side | Side | Side | | | |
| | 24 Bay | Side | Side | Side | Side | Side | | | |
| | 8 Bay | 8.1 | | | | | | | |
| Elevation Gain at | 16 Bay | 15.3 | | | | | | | |
| 24 Ba | | 22.7 | | | | | | | |
| Standard Input power | 8 Bay | 40 | | | | | | | |
| rating (higher power | 16 Bay | 40 | | | | | | | |
| versions available) (kW) | 24 Bay | 40 | | | | | | | |
| | 8 Bay | 17.5 | | | | | | | |
| Height (ft) * | 16 Bay | 32.6 | | | | | | | |
| | 24 Bay | | 47.7 | | | | | | |
| | 8 Bay | | 1332 | | | | | | |
| Weight (lb)* | 16 Bay | | | 2686 | | | | | |
| | 24 Bay | | 4020 | | | | | | |
| | 8 Bay | | | 32.7 | | | | | |
| Effective area | 16 Bay | | | 46.1 | | | | | |
| | 24 Bay | | | 85.5 | | | | | |

* Side Mount Antenna



NEXTGEN TV COMBINERS

STARPOINT COMBINERS

CS Series

RFS CS series starpoint combiners offer an economical solution for combining non adjacent channels at multi-channel SFN sites. The compact footprint and air-cooled design simplifies site acquisition and reduces site infrastructure costs. These combiners include mask filtering that is optimized for ATSC3 operation. They are available in 2, 3 and 4 channel configurations. Additional channels can be added in the field up to a maximum of 4 channels.

- Optimized for ATSC3 SFN applications
- · Economical solution for non-adjacent channel combining
- Includes ATSC3 mask Filtering
- Compact footprint
- Add channels or change frequencies in the field using RFS BCAT[™] tuning software**
- BCAT[™] software removes the requirement to return each unit to the factory for reconfiguration or retuning
- Uses the field proven RFS PeakPower+[™] filter technology that provides the utmost power handling capability and reliability



| Model Number | CS8PPXX110E | CS8PPXX160E | CS8PPXX200E, Natural CS8PPXX202E, Fan | CS8PXXW | | | |
|--|---|---|---|---|--|--|--|
| Model Description | | 2, 3 or 4 Char | nnel Combiner | | | | |
| Product Type | | UHF TV Starp | oint Combiner | | | | |
| Frequency range, MHz | | 476-60 | 08 MHz | | | | |
| Channel Spacing | | Non-A | djacent | | | | |
| Narrowband Input Power (maximum) kW | 1.0 | 2.6 | 6 Natural convection / 9.0 Forced air cooling (water cooling option) | 12 | | | |
| Output Power (maximum) kW | 4.0 | 10.4 | 36 | 44 | | | |
| Impedance (unbalanced) Ohms | | Ę | 50 | | | | |
| Number of Poles | | | 8 | | | | |
| Filter Type | | Cross Coupling Retuneable | | Wave Guide Non-Retunable | | | |
| Number of Cross Couplings | | 2 | | | | | |
| Passband, MHz | | 6 MHz, | ATSC3.0 | | | | |
| Input Connector Size * | DIN 7-16 | 1-5/8" EIA | 3-1/8" EIA | 3-1/8" EIA | | | |
| Output Connector Size * | 1-5/8" EIA | 3-1/8" EIA | 6-1/8" EIA | 6-1/8" EIA | | | |
| Weight (lbs) | 260 | 331 | 846 | 750 | | | |
| Dimensions H x W x D (in) | 32.16 x 25.35 x 35.04 (4 channel unit) | 36.38 x 33.43 x 30.55 (4 channel unit) | 29.06 x 97.17 x 97.17 (4 channel unit) | 84.17 x 51.18 x 51.18 (4 channel unit) | | | |

* Others available on request

** Except for model CS8PXXW



NEXTGEN TV COMBINERS

BALANCED COMBINERS

CA Series

RFS CA series constant impedance balanced combiners offer a high performance solution for combining both adjacent and nonadjacent channels at multi-channel SFN sites. The compact footprint and air-cooled design simplifies site acquisition and reduces site infrastructure costs. These combiners include mask filtering that is optimized for ATSC3 operation. The modular design incorporates multi stage hybrids that allow additional channels to be added in the field without the need for tuning or adjustment.

- Optimized for ATSC3 SFN applications
- High performance solution for both adjacent and nonadjacent channel combining
- Includes ATSC3 mask filtering
- Compact footprint
- Plug and Play Add channels in the field without the need for tuning or adjustment
- Uses the field--proven RFS Peak+[™] filter technology that provides the utmost power handling capability and reliability



| Model Number | CA6PPXX110E | CA8PXX160E | CA8PPXX200E | | | |
|---|---------------------------------------|-------------------------------------|---------------------------------------|--|--|--|
| Product Type | | UHF Balanced Combiner | | | | |
| Frequency range, MHz | 470-608 | | | | | |
| Channel Spacing | | Adjacent | | | | |
| Narrowband Input Power Rating @ fc, kW (≤40° rise), fc = 539 MHz | 3.3 | 5.5 | 16.5 | | | |
| Combined Output Rating with 1-5/8" Coupler, kW | 5.6 | N/A | N/A | | | |
| Combined Output Rating with 3-1/8" Coupler, kW | 13.2 | 18 | 18 | | | |
| Combined Output Rating with 6-1/8" Coupler, kW | N/A 40 | | 40 | | | |
| Impedance (unbalanced) Ohms | 50 | | | | | |
| Number of Poles | 6 8 | | 8 | | | |
| Filter Type | Cross Coupling | | | | | |
| Number of Cross Couplings | 2 | | | | | |
| Passband, MHz | 6MHz, ATSC 3.0 | | | | | |
| Input Connector | 1-5/8" EIA | 1-5/8" EIA or 3-1/8" EIA | 3-1/8" EIA | | | |
| Output Connector | 1-5/8" EIA OR 3-1/8" EIA | 3-1/8" EIA OR 6-1/8" EIA | 3-1/8" EIA OR 6-1/8" EIA | | | |
| Weight (lbs) | 152.12 | 392.7 | 478.4 | | | |
| Dimensions H x W x D (in) | 34.06 x 17.72 x 35.04 (Single Module) | 56.9 x 19.69 x 39.9 (Single Module) | 60.87 x 19.69 x 39.92 (Single Module) | | | |



RF **CABLES**

HELIFLEX® AIR-DIELECTRIC COAXIAL CABLE HCA Series

RFS HELIFLEX® transmission lines are ideally suited to the requirements of multi-channel SFN sites. The inherently broadband nature of these continuous length cables eliminates the problem of "flange VSWR build-up" and banned channels that are often associated with rigid line systems. Furthermore, there is no need for complex spring hanging systems or multiple interconnections, resulting in simplified installation and increased reliability. The relatively short SFN tower heights (measured in hundreds of feet rather than thousands of feet) make these cables an obvious choice for SFN sites.

RFS HELIFLEX[®] transmission lines are made from premium materials and offer low attenuation and high-power rating to ensure superior performance of your transmission system. RFS's leadership in the industry has never been in contention. The product has undergone continuous improvement since we first introduced the continuous weld corrugated coaxial cable in the 1950's.



- Highest power and lowest loss for products of equivalent size from any competitor
- Each cable run is tested. The jacket shows sequential marking for length, product code and production tracer code.
- Superior performing connectors
- · Custom lengths and interfaces
- Full range of accessories

| Model Number | HCA158-50J | HCA214-50J | HCA300-50J | HCA400-50J | HCA495-50J | HCA550-50J | HCA618-50J | HCA800-50J |
|--|---|------------------------------|----------------------|--------------------|----------------------|--------------------|-----------------------|------------|
| Size | 1-5/8" | 2-1/4" | 3" | 4" | 5" | 5-1/2" | 6-1/8" | 8" |
| Jacket Option | | | | Bla | ack | | | |
| Inner Conductor Material | | | | Corrugated (| Copper Tube | | | |
| Dielectric Material | | | | Helical Polyet | nylene Spacer | | | |
| Outer Conductor Material | | | | Corrugate | ed Copper | | | |
| Jacket Material | | | | Polyethy | lene, PE | | | |
| Recommended / Maximum Clamp Spacing, m (ft) | 0.8/1.2 (2.75/4.0) | 0.8/1.0 (2.75/3.25) | 0.8/1.2 (2 | 2.75/4.0) | 1.0/2.0 (3.3/6.6) | | 1.0 / 2.0 (3.3 / 6.6) | |
| Impedance, Ohm | | | | 50 +/ | - 0.5 | | | |
| Maximum Frequency, GHz | 3 | 2.3 | 1.63 | 1.66 | 1 | 0. | 86 | 0.65 |
| Velocity, percent | 9 | 5 | 9 | 6 | 97 | 96 | 9 | 7 |
| Peak Power Rating, kW | 270 | 425 | 640 | 940 | 1560 | 2250 | 2890 | 4000 |
| RF Peak Voltage, Volts | 5200 | 6500 | 8000 | 9700 | 12500 | 15000 | 17000 | 20000 |
| Jacket Spark, Volt RMS | | | | 80 | 00 | | | |
| Install. Temperature, °C(°F) | | | | -40.0 to 60.0 (- | 40.0 to 140.0) | | | |
| Storage Temperature, °C (°F) | | | | -70.0 to 85.0 (- | 94.0 to 185.0) | | | |
| Operation Temperature, °C(°F) | | | | -50.0 to 85.0 (- | 58.0 to 185.0) | | | |
| Phase Stabilized | | Phas | e stabilized and pha | ase matched cables | and assemblies are | available upon req | uest. | |
| Flame Retardant Jacket Specs | | | Meets the r | equirements accorc | ling to: IEC60754-1, | IEC60754-2 | | |
| Attenuation (dB/100 ft) @ 473 MHz | 0.430 | 0.387 | 0.295 | 0.253 | 0.195 | 0.152 | 0.132 | 0.106 |
| Attenuation (dB/100 ft) @ 605 MHz | 0.490 | 0.443 | 0.340 | 0.289 | 0.222 | 0.174 | 0.151 | 0.122 |
| Maximum Average Power (kW) @ 473 MHz | 8.6 | 10.0 | 17.3 | 24.4 | 37.3 | 58.7 | 76.7 | 124.4 |
| Maximum Average Power (kW) @ 605 MHz | 7.6 | 8.8 | 15.1 | 21.5 | 32.9 | 51.6 | 67.3 | 109.3 |
| Applications | UHF, VHF, Broad- cast; intended for outdoor usage | d- for TV, Broadcast e | | | | | | |



RF CONNECTORS

HELIFLEX[®] CONNECTOR SERIES

HCA Series

RFS' line of high performance HELIFLEX coaxial cable connectors are characterized by excellent gas tightness and extremely low losses. HELIFLEX connectors can be installed with basic hand tools, but the use of dedicated installation tools further facilitates ease of assembly and improves performance. RFS connectors are fully tested for mechanical and electrical compliance specifications. HELIFLEX premium connectors have excellent electrical values and provide outstanding performance for the most demanding applications. The RFS connector design provides maximum sealing integrity and gas tightness.

- Quick-fit connector series -019KT simplifies installation by removing the need for sealing compound
- Excellent gas tightness overpressure for increased voltage handling is maintained throughout the system
- Robust mechanical design, superior and consistent
 performance guarantees outstanding system characteristics
- Extremely low reflection factor, outstanding low reflection factor improves overall system performance and margin and reduces mismatch losses
- Totally waterproof according to IP 66 / 68 assuring safe, long term operation in the harshest of environments

| Model Number | 78EIA-HCA78-019KT | 158EIA-HCA158-019KT |
|------------------------------------|---|----------------------------------|
| Flange Type | 7/8″EIA | 1-5/8″EIA |
| Gender | Ν | /lale |
| Cable Type | HCA78 | HCA158 |
| Impedance (ohms) | | 50 |
| VSWR | 0 - 1GHz 1.02 1 - 2.3GHz 1.03 2.3 - 3.0GHz 1.06 | 0 - 1GHz 1.02 1 - 2.7GHz 1.06 |
| Average Power (kW) @ 605MHz * | 2.5 | 5.9 |
| Working Voltage @ sea level (kV) * | 2.5 | 4.7 |
| Sealing Method | O-Ring Sealing | O-Ring Sealing |

| Model Number | 318EIA-HCA300-019KT | 318EIA-HCA400-019KT | | | |
|------------------------------------|-------------------------------------|---------------------|--|--|--|
| Flange Type | 3-1/8″EIA | 3-1/8″EIA | | | |
| Gender | Ν | Male | | | |
| Cable Type | HCA300 | HCA400 | | | |
| Impedance (ohms) | 50 | | | | |
| VSWR | 0 - 860MHz 1.02 860-1500MHz 1.05 | | | | |
| Average Power (kW) @ 605MHz * | 15.2 | 19.5 | | | |
| Working Voltage @ sea level (kV) * | 8.0 | 9.5 | | | |
| Sealing Method | O-Ring Sealing | O-Ring Sealing | | | |



| Model Number | 412IEC-HCA495-009KT | 618EIA-HCA550-009KT | 618EIA-HCA618-009KT |
|------------------------------------|-------------------------------------|---------------------|---------------------|
| Flange Type | 4-1/2"IEC | 6-1/8″EIA | 6-1/8"EIA |
| Gender | | Male | |
| Cable Type | HCA495 | HCA550 | HCA618 |
| Impedance (ohms) | | 50 | |
| VSWR | 0 - 860MHz 1.02 860-1000MHz 1.04 | 0 - 860MHz 1.02 | 0 - 860MHz 1.02 |
| Average Power (kW) @ 605MHz * | 33.1 | 52 | 68 |
| Working Voltage @ sea level (kV) * | 12.6 | 15 | 17 |
| Sealing Method | Sealing Compound | Sealing Compound | Sealing Compound |

* Power and voltage ratings are determined by both the connector and cable to be attached to. Please Note:KT series connectors come with inner coupling, O-ring and flange hardware.



Broadcast Solutions

WORLDWIDE BROADCAST SUPPORT

RFS is committed to developing cutting-edge, cost-effective broadcast solutions designed to outlast other systems while never compromising on performance. We anticipate the evolving technology needs of our partners creating greater connectivity within the markets we serve and representing one simple force – the design, manufacture and deployment of RF technology, systems and services.



RFS has advanced RF simulation and modeling to the point where antennas can be fully built using design simulation software so that the manufactured product will not require any additional tuning.



RFS' USA-based state-of-theart manufacturing facility with more than 350,000 sq. ft. is located in Meriden, CT. It contains near and far field test ranges and abundant covered storage areas.





Pioneering significant advancements for RF broadcast antennas, filters and combiners has greatly reduced lead time, increasing the factory's capacity to produce more antennas in a shorter time.

From design to manufacture, ISO 9001 and ISO 14001 certification standards and LEAN manufacturing methods encompass all aspects of RFS' business worldwide.

THE ONLY END-TO-END BROADCAST SYSTEM PROVIDEER

RFS is the only provider with a truly holistic, end-to-end approach. Our focus is on your future needs, so innovation in adaptability of infrastructure play a vital role. We utilize retunable filters at all power levels and provide the broadest bandwidth antennas across FM, VHF and UHF bands. Our polarization designs are market leading and our software tools allow for tuning to customer needs.

A LIFETIME OF SUPERIOR ELECTRICAL PERFORMANCE

Meticulous end-to-end system design means that each broadcast system is fine tuned to deliver premium performance year after year.

BUILT TOUGH TO SURVIVE EXTREME CONDITIONS

Our rugged construction and corrosion resistance measures ensure that each system works reliably in the harshest of environments, under the most demanding of operating conditions.













RFS

RADIO FREQUENCY SYSTEMS

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