



NATIONAL 6G STRATEGY BILL PASSES
SENATE COMMERCE COMMITTEE

DIAGNOSE WITHOUT
CLIMBING THE TOWER

THE NEWEST 5G
GETS A JUMP!

VZW SMART KIT

REINFORCE YOUR TOWER AND OPTIMIZE ANTENNA PERFORMANCE
SECURELY WITH THE VERIZON APPROVED SMART KITS



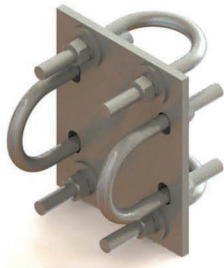
VZWSMART-PLK7
Monopole Collar Mount



VZWSMART-PLK8
Handrail Reinforcement Kit



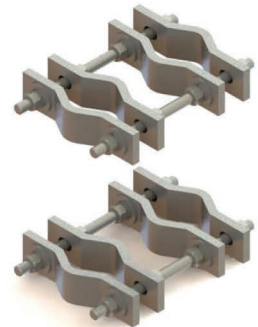
VZWSMART-PLK5
Kicker Support Arm



VZWSMART-MSK1
Small Crossover Plate Kit



VZWSMART-PLK3
Support Rail Corner Brackets



VZWSMART-MSK3
Single Pipe to Pipe Clamp



VZWSMART-MSK3D
Double Pipe to Pipe Clamp Set



VZWSMART-MSK4
Leveling Pipe Kit



VZWSMART-SFK4
Rotating T-Arm Kit

WELCOME TO COMS MEDIA!

We are excited to launch our first publication featuring the latest telecommunication information both here and on our website. COMS Media is a central hub bringing the telecommunications industry together with the latest updates, technology, and news!

We are dedicated to keeping you informed and connected in regards to the latest and greatest in telecommunications policy, advocacy, innovations, infrastructure, essential parts and equipment, and much more. Be sure to follow us as we bring you global infrastructure updates to US Big Tech news.

Please enjoy the content we have assembled and be sure to follow the QR Codes to link to our online information hub and to connect with essential vendors to keep your next project thriving.

We would like to extend a 'thank you' to our premier partner, Talley, Inc. and its network of leading telecommunications vendors for helping us make this launch possible, and we look forward to many more successful partnership opportunities in the future.



A Quarterly Publication

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NATIONAL 6G STRATEGY BILL PASSES SENATE COMMERCE COMMITTEE

WASHINGTON, March 22, 2022 – Legislation that would create a council to advise Congress on 6G and other wireless technologies and how they may power smart cities on Tuesday passed the Senate’s Commerce, Science and Transportation committee with bipartisan support.

In addition to advising Congress on the state of technology in the telecommunications industry, the council would also develop a comprehensive, national telecom strategy, which will address topics related to technology, workforce demands and security.

The bill, Next Generation Telecommunications Act, S.3014, was introduced by Sen. **Catherine Cortez Masto**, D-Nev., who said in a press release that the legislation is a key part of her state’s goal of being “on the cutting edge of new technologies.”

“We’ve got to promote American competitiveness in these kind of cutting-edge technologies that we’re building in Nevada,” Cortez Masto said in a statement on the bill. “That means improving access to quality broadband, ensuring we have the necessary workforce, and putting in safeguards to make sure we protect emerging technologies.”

The council would be comprised of 15 members including the deputy secretary of Commerce, the assistant secretary of Commerce for Communications and Information, the undersecretary of the National Institute of Standards, the chairperson of the Federal Communications Commission, and the director of the National Science Foundation.

The council would also feature three members appointed by the majority leader of the Senate, two members appointed by the minority leader of the Senate, three members appointed by the Speaker of the House, and two members appointed by the minority leader of the House.

The bill has received notable bipartisan support: it is co-sponsored by two Republicans and two additional Democrats, including Sen. **Chuck Schumer**, D-N.Y., and Sen. **Ben Luján**, D-N.M.

“As China and other countries seek to exploit communications networks for surveillance and intellectual property theft, the U.S. needs a cohesive strategy for the safe deployment of next-generation wireless technologies,” said Sen. **Roger Wicker**, R-Miss.

South Dakota senator and Senate Republican minority whip **John Thune** also came out in support of the bill. “This bill would allow the United States to continue competing on the global stage, and it would help prepare the United States to lead the way in deploying next-generation technology, including 6G. I’ll continue to work on bipartisan solutions that will increase innovation and bolster the private sector’s ability to compete in this emerging space.”

The bill must now get through a general vote in the Senate, at which point it will need to also pass the House.

DIAGNOSE WITHOUT CLIMBING THE TOWER

Anritsu's New PIM Master™ B-series Diagnoses PIM Issues Reducing Time and Costs

Cable and antenna systems are a critical link in any wireless communications network. The quality of the components and their installation have a significant impact on network performance, site reliability, and ultimately, customer satisfaction.

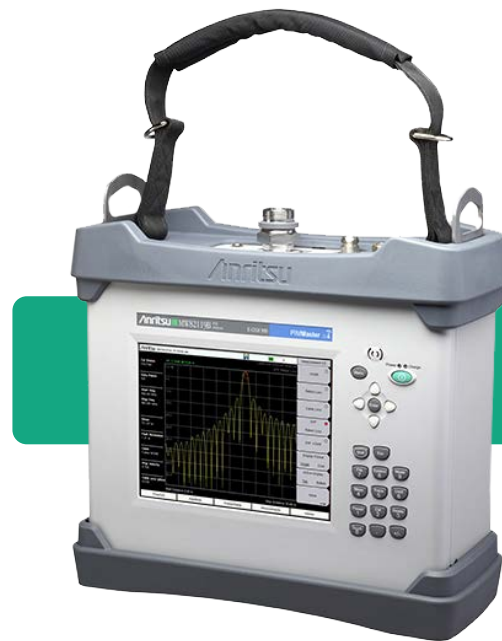
To operate at maximum potential, the cable and antenna system must pass radio frequency (RF) signals between mobile subscribers and the base transceiver station (BTS) as efficiently as possible (minimum loss, minimum reflections), and without generating unwanted noise (passive intermodulation).

Diagnosing and troubleshooting PIM problems is an expensive and time consuming exercise. It not only requires hours of resources but also degrades QoS since the site has to be shut down. The problem is exacerbated by new bands such as FirstNet introduced into LTE networks that make the RF environment more conducive to PIM.

PIM is a growing issue for cellular network operators. PIM issues may occur as existing equipment ages, when co-locating new carriers, or when installing new equipment. PIM is a particular issue when overlaying (diplexing) new carriers into old antenna runs. PIM can create interference that will reduce a cell's receive sensitivity or even block calls. This interference can affect both the cell that creates it as well as other nearby receivers. PIM is created by high transmitter power, so on-site PIM testing needs to be done at or above the original transmitter power levels to make sure that the test reveals any PIM issues.

The PIM Master MW82119B Battery-operated, High Power Portable, Passive Intermodulation Analyzer with optional Cable and Antenna Analyzer.

PIM Master™ B-series is a 40 Watt, battery-operated PIM analyzer featuring Site Master™ line sweep capability. With the Site Master option included, the PIM Master is able to fully certify cable and antenna system performance, measuring PIM, Distance-to-PIM, Return Loss, VSWR, Cable Loss and Distance-to-Fault with a single test instrument.



#WILMW82119B

PIM Master includes a large, outdoor-viewable display and intuitive user interface that is optimized for field conditions. PIM Master's rugged design and enhanced portability enables both PIM and line sweep testing at the "top-of-the-tower," helping operators to achieve maximum RF performance from their LTE Remote Radio Head (RRH) installations.

Compatible with the Smart Aligner Android application for the generation of site closeout reports, including antenna alignment results from Multiwave tools and line sweep results.

Typical applications include:

- RF Component testing
- Antenna testing
- Macro site cable system testing
- Remote Radio Head (RRH) site testing
- Distributed Antenna System (DAS) testing
- 2-port PIM hunting (option 703)

The available 2-port PIM Master solution (Option 0703) for the LTE 700 band now allows technicians to send F1 and F2 CW tones through Bands 17 and 14 antennas simultaneously, making testing and PIM hunting a FirstNet deployment more efficient.

This versatile solution also works as a traditional 1-port LTE 700 PIM test set, ideal for finding PIM in cable and antenna systems, as well as tap-testing connectors.

View Product Information

[Click Here](#)

Learn more at our Webinar

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THE NEWEST 5G GETS A JUMP!

Hybrid and fiber-only jumpers simplify the newest generation of 5G installations in any location, using any power source

Deploying large numbers of 5G radios close to end users is key to mobile operators' strategies as they evolve to 5G. Radio Frequency Systems has been a global leader in wireless connectivity for 120 years and is continuing their commitment to providing wireless and broadcast infrastructure products and solutions by offering HYBRIFLEX® Jumper Cables for 5G Radio Deployments.

RFS provides wireless infrastructure solutions to operators around the world. Offering weather- and corrosion-resistant jumper cables for 5G deployments is essential to ensure robust and resilient solutions in all types of environments. This allows mobile operators the flexibility to install critical 5G equipment on towers, rooftops, light poles, and other locations, and to take advantage of DC or AC power sources. RFS developed these hybrid fiber and power jumpers for macro site installations by featuring corrugated aluminum armor, efficiently bringing DC power and optical fiber to the newest generation of Samsung 5G radios. These jumpers provide 6 AWG power wires and up to 3 single-strand, single-mode optical fibers. They're also available in 15, 30 and 40-foot lengths with additional lengths available on request.

Further, HYBRIFLEX has proven to be ideal for Samsung small cell 5G mmWave radios providing 8 AWG power wires and up to 2 pairs or 2 strands of single-mode optical fibers. They're available in lengths up to 100 feet in 10-foot increments with additional lengths available on request.

RFS also offers these resilient fiber-only solutions for locations with AC power. They are ruggedized for outdoor environments and are ideal to efficiently bring single-mode optical fiber to Samsung small cell 5G mmWave radios on rooftops, light poles and other locations where AC power is already available. The fiber-only jumpers are available in lengths up to 100 feet in 10-foot increments with additional lengths available on request.

Like all HYBRIFLEX cables, these jumpers are engineered to hold internal fiber and power lines in place with maximum force without damaging the core components and are fully tested to ensure long-term performance and durability in the field. Complete test results for the UL-listed jumpers are available on RFS's test performance data tool.

*RFS's test performance
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SIMPLE STEPS TO BETTER SPEED, PERFORMANCE OF NEW MID-BAND 5G NETWORKS

The FCC recently released 100 MHz of bandwidth between 3.5 and 3.55 GHz frequency at an auction that raised \$22 billion. That means more 5G carriers and greater access to 5G in more places, like rural areas.

It also means more Passive Intermodulation (PIM) issues. In total, there is now 530 MHz of contiguous mid-band spectrum available to US operators spanning across the 3.45 GHz (DoD band), 3.5 GHz (CBRS band), and 3.7 GHz (C-band) spectrums.

Nearly every MHz of mid-band spectrum is subject to PIM issues generated by existing 600 MHz, 700 MHz, 850 MHz, 1900 MHz and 2100 MHz systems installed at sites, according to an analysis by ConcealFab, a manufacturer of wireless installation infrastructure and PIM solutions. The study found that the existing low-order intermodulation products can elevate the noise floor, reducing the speed and coverage of new networks.

Several US operators are requiring PIM Hygiene at sites deploying new radioequipment to reduce the potential

for PIM interference. By proactively and cost-effectively addressing potential PIM problems during mid-band spectrum deployment, operators can avoid issues later.

According to ConcealFab, requiring low PIM cable support hardware and investing the time to perform PIM Hygiene while on site are simple steps that can help maximize the performance of new mid-band networks.

ConcealFab, headquartered in Colorado Springs, engineers and manufactures wireless infrastructure mounting and concealment solutions for Sub 6 and mmW deployments, as well as products that minimize passive intermodulation (PIM).

Learn more at

[Click Here](#)



NOW HEAR THIS

Clear the Air with the Right Antennas

Connecting mobile users with wireless networks can be challenging in remote areas or “dead zones.” And the demand has never been greater. According to a consumer survey, rural residents rank wireless service second only to electricity in importance.

Connecting cell towers and sites in remote areas or across long distances can be challenging. And ensuring clear communications with low interference is crucial. Installing the right microwave backhaul antennas for wireless networks can make all the difference in their performance.

That’s where CommScope microwave backhaul antennas come in. With over 45 years of experience, CommScope has supplied hundreds of thousands of antennas for networks around the world.

CommScope’s microwave backhaul antennas are designed to meet any network challenge and environmental condition. They offer a wide range of microwave antennas to meet any size, cost, performance, or survivability requirements.

Available in sizes from 8 inches to 6 feet in diameter, their low-profile design makes them easy to install and align, while reducing wind loading and improving aesthetics.

Learn more at

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MISSION STATEMENT

The Tower Family Foundation has been established to help provide financial assistance and scholarships to family members of a severely injured, permanently disabled, or deceased tower worker injured or killed in an accident stemming from working at heights on communication structures or other on the job related activities that tower workers are involved in on a daily basis.

GET INVOLVED

The Board of Directors and Advisory Committee members invite all industry stakeholders to help us promote the activities of the Tower Industry Family Support Charitable Foundation. Individuals and companies are encouraged to get involved as donors to the Foundation and by nominating tower workers and/or their families who have been affected by a post-accident or fatality situation.

GIVING

Since its inception in September of 2014, the Tower Family Foundation has awarded over \$1,216,000 in financial assistance and scholarships to eligible tower workers and their families.

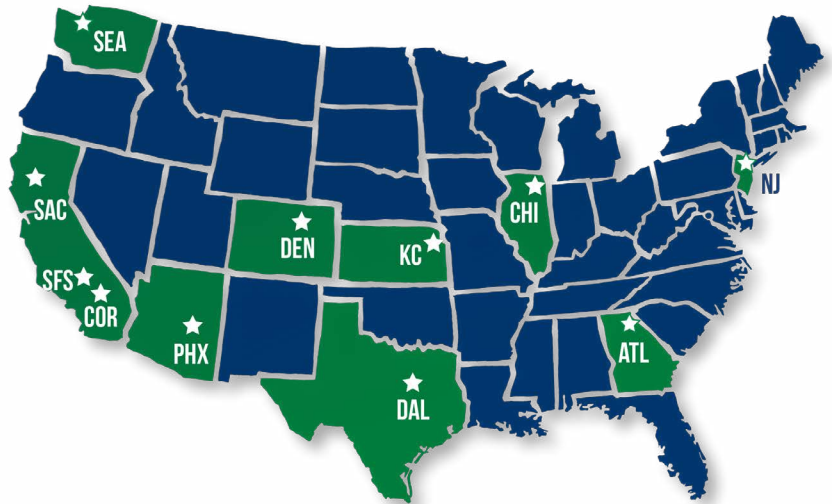
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