The future of wireless technology is here, and TV White Space is ready to step up to the challenge of ubiquitous connectivity. The Internet of Things (IoT) refers to the evolving industry of interconnected devices that are designed with the advanced capability of automating tasks and communicating data from Machine-to-Machine (M2M). While the Internet of Things seeks to connect all our devices to wireless smart objects, and ultimately smart grid cities, the whole system relies on the functionality of a ubiquitous Internet connection.

**The TV White Space Advantage**

TV White Space connectivity provides a unique solution for connecting hundreds of devices and transmitting high data rates over a large non-line-of-sight coverage area. Where traditional Wi-Fi technology is limited in range and requires line-of-sight, the RuralConnect can travel through walls and around hills, trees, and buildings, and fills in the connectivity gaps that modern microwave technology leaves behind. The RuralConnect White Space Radio holds the key to affordable access in last-mile areas where traditional technology is too expensive to deploy or simply cannot reach, making it an ideal fit for enabling the Internet of Things everywhere. This potential can fuel the wireless digital function of machine automation, asset tracking, transfer switch operation, smart metering (current and voltage), video security, and feedback / control systems.

**Applications and Current Deployments for the Internet of Things**

**Non-Line-of-Sight:**
Signal achieves up to 100 times the coverage of traditional Wi-Fi technology and propagates through trees, hills, walls and buildings.

**New, Clean Spectrum:**
This spectrum provides an alternative to crowded microwave and 900 MHz spectrums, resulting in available space for devices to connect and send data with high throughputs and minimal latency.

**Great Coverage with Minimal Infrastructure:**
Capable of connecting many clients in a wide coverage area, while reducing the amount of towers and infrastructure necessary.

**Abundance of Data Throughput:**
TV White Space devices will support up to 16 Mb/s second and are capable of connecting hundreds of low power, low throughput devices with one Base Station.

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**SCADA Systems, M2M, and Industrial Control**
The RuralConnect provides the supervised control and quick responses that enables a SCADA operation to run smoothly, accurately transferring and monitoring packets of data. Get real time alerts and automated responses with high-speed broadband that enables a system to run all on its own.

**Smart Home Utility Management**
There are 50 million homes with smart meters in the U.S., and 15 million homes that require non-line-of-sight smart-grid solutions. The RuralConnect can support many devices and provide backhaul for smart-grid applications and an affordable network that will support energy, heating, water management and security systems.

**Connected Cities**
A city-wide smart grid can rely on a robust TV White Space network for 'smart' traffic signals and street lighting, connected roads, and modernized sports stadiums, shopping or entertainment centers, and more. The RuralConnect also has the ability to backhaul video surveillance at any of the access points.