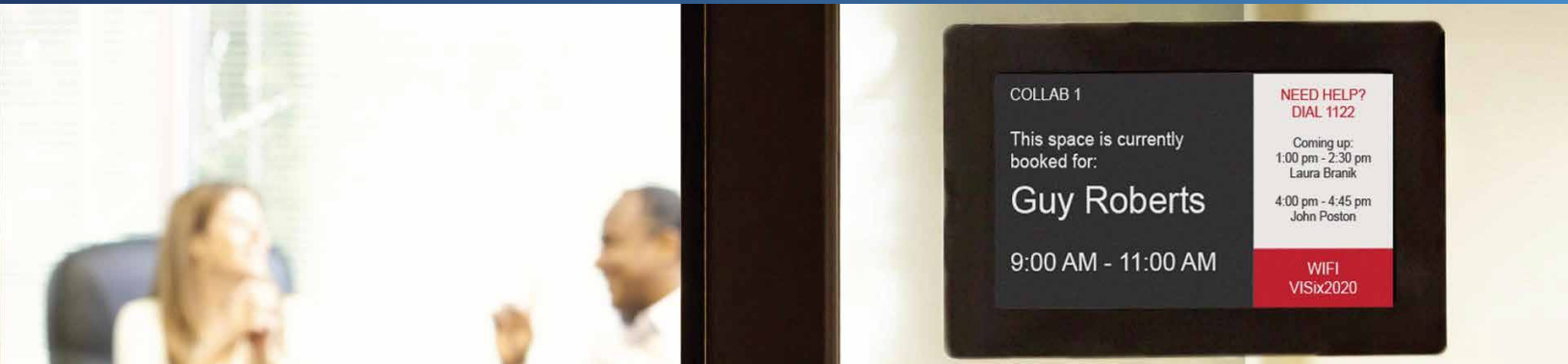# LoRaWan® Solutions for Digital Signage

Create Digital "Paper" Signs with MultiTech Conduit

In the past, large hospitals, hotels, office buildings, and educational campuses would mount physical signs on doors that listed room numbers, staff names, class schedules, and more. Anytime a class schedule changed or an employee turned over, someone would have to manually visit the affected offices and classrooms to replace the content of each sign by hand. With the technologies available today, such practices are not only outdated, but are tedious and time consuming. These same organizations are turning to wireless digital signs that are easy to read, pleasant on the eyes, and allow for remote updates. The most cost conscious organizations are turning to purveyors of ePaper signage solutions, and here is why...

The Challenge | Wireless Connectivity for Low-Powered Digital Signage

While many organizations are turning to companies that supply LCD screens, many are not. Generally this is because the cost of purchasing dozens to hundreds of those screens is costly, as is the data and power they consume daily. To fulfill the lower power, low data, and low cost needs of organizations with hundreds of individually labeled rooms, companies that produce newer ePaper-based signage have started putting products to market.

The reflective design of ePaper blends into the background when you're not looking for it, making it the preferred choice for many environments where unobtrusive and cost-effective display options is the goal. But even with these state-of-the-art display solutions, both the companies that manufacture the signs, and those that utilize them have found getting those devices connected and online for remote management has been difficult. Until now.

The Solution | LoRaWAN® Devices to Connect Thousands of End Nodes

When businesses implement ePaper digital signs, they face many challenges. These include the possibility of wireless failover, wireless replacement, parallel networking, the ability to remotely control and manage their digital displays, facilitate automation, and secure digital transfer. LoRaWAN® devices provide a low-power, wide-area networking protocol, making it ideal for the management of ePaper digital signage.

MultiTech's trusted easy-to-deploy LoRaWan networking solutions, available from RTO, offer the best IoT gateways for indoor and outdoor digital signage, including innovative ePaper signs. Solutions such as the MultiTech Conduit® IP67 Base Station, mDot™ Box, and MTAC-LoRa mCard™ provide businesses with the connectivity they need to support the deployment of both in and outdoor ePaper signage solutions.

Each IP67 Base Station can support hundreds to thousands of separate LoRaWAN® end nodes, providing durable, low-power, wide-area connectivity for all the digital signs at your business or venue. Embedded with mPower™ Edge Intelligence software, each base station delivers programmability, network flexibility, enhanced security and manageability for scalable IIoT solutions.

With the mDot Box, users can quickly obtain and evaluate data to see how LoRa technology performs at any given location while LoRa accessory cards enable long-range connectivity to distributed assets and sensors using a proprietary RF spread spectrum technology from Semtech®.

The Team | Device Selection, Provisioning, and Activation Services

RTO provides wireless solutions to hundreds businesses that produce digital signage solutions of all kinds nationwide. Better wireless solutions keep your organizations signs and displays running longer with less maintenance, cuts down on the need for manual repairs, and reduces your TCO. Contact the experts at RTO to procure, provision, and activate all the wireless networking solutions your organization needs to achieve its' connectivity goals.

Industry Profile

· Digital Signage Developers
· Retail and Hospitality Outlets
· Large Office Complexes
· Educational Campuses

MultiTech Solutions

· Conduit® IP67 Base Station
· Conduit® IoT Gateway
· MTAC-LoRa mCard™
· LoRa Antennas
· LENS® Application

Targeted Results

· Real-Time Sensor Data
· Lower Power Wide Area
· Remote Management
· Cost Savings and ROI

CONTACT US TODAY FOR LOW POWER WIDE AREA NETWORKING SOLUTIONS

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