

# Civil Defense

Compact and Durable VX-2100 Mobile Radios  
Support Emergency Alarm Systems

APPLICATION BRIEF



For decades, governments around the world have used civil defense emergency sirens to alert citizens of threats, whether those threats are weather-related, industrial accidents, or war. Typically, two-way radios provide the communications bridge between the alarm's encoder and the siren site decoder or controller.



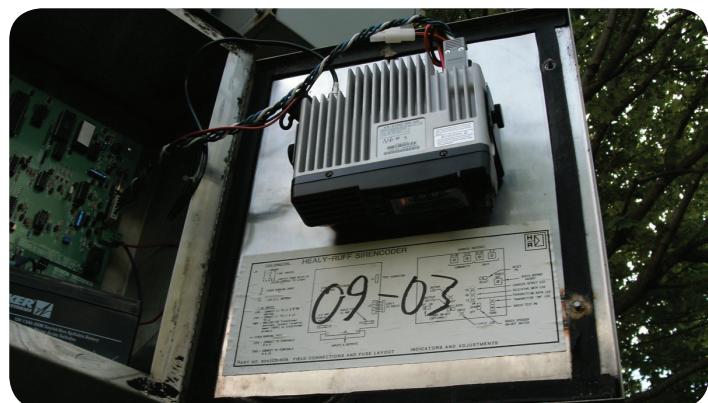
## Radio's small size makes it a perfect fit

In most cases, civil defense sirens are installed inside of housings mounted on telephone poles that are located anywhere from inner cities and suburbs to rural areas. The housings are typically small and cannot accommodate some standard size radios. The VX-2100 chassis is compact and fits easily into most siren housings.

## Off-the-shelf emergency siren solution at the right cost

When a Minnesota county needed to quickly upgrade the two-way radios used in their civil defense alarm sirens to meet the FCC narrowbanding mandate, they turned to Professional Wireless Communications, who recommended the VX-2100. Due to the radio's plug-and-play capability and small size that fit perfectly into the siren's existing chassis, the installation took very little time and the entire project came in under budget.

"No modifications were necessary and the radio had everything they needed including PTT and transmit/receive audio," says Mark Greenlee of Professional Wireless Communication. "The VX-2100 was the right choice for cost, reliability, and quick installation to meet the deadline."



**“The Vertex Standard solution makes sense because it is virtually off-the-shelf in the emergency siren application and installs quickly and easily. Saves time, saves money, does the job reliably, and helps reduce maintenance cost.”**

Mark Greenlee, Professional Wireless Communications



### Reliability is critical: when disaster strikes, alarms must respond

When you buy Vertex Standard, you're buying the perfect balance of quality and value that lets you connect without compromise. Since 1956, Vertex Standard has maintained a focused commitment on delivering quality radio communications equipment that supports public safety applications worldwide.

- Precision engineering delivering compact, feature-rich radios for maximum value
- Reliable products built to IP and MIL-STD specifications
- Value-driven performance: quality radios and cost savings

### Time is Running Out by January 1, 2013

The Federal Communications Commission (FCC) has mandated all Public Safety and Industrial/Business licensees using FCC Part 90 25 kHz radio systems to migrate to narrowband 12.5 kHz channels or a technology that achieves equivalent efficiency by January 1, 2013. This means licensees who are using existing wideband systems must convert to narrowband operation or, if those radios cannot be converted, must replace the system with narrowband radios prior to January 1, 2013.

### Routine maintenance checks are made easy

The operational software in most civil defense sirens enables frequent, routine testing of the sirens, allowing operators to run maintenance tests that send out signals to test sirens and poll for data.

### VX-2100 — Full-featured and Ready to Serve

Vertex Standard radios were a perfect fit for the civil defense emergency siren application. Narrowband-compliant and compact, VX-2100 radios are cost-effective while offering superior reliability, high power performance, easy installation, and off-the-shelf convenience with customizable features.

The VX-2100 mobile radio is a full-featured transceiver designed for flexible mobile and base station business and public safety communications. The D-Sub 15-pin connector on the radio allows users to tap different capabilities of the radio, such as transmit and receive audio, as needed without having to open the radio to put in jumpers or a bridge to access those points. Installers avoid the obstacle of having to modify a device which adds time, money, and could cause risk to the integrity of the radio.

