

The 5424 MeshScape® Wi-Site Provides Network Management, Data Logging, Site-Level Control, and Functions as an Access Point to a LAN- or Internet-Based Software Application

Features at a Glance

- Provides LAN and Internet connectivity between the mesh network and software applications
- Logs data in its internal database
- Controls the wireless network
- Bidirectional FTP data transmission
- Ethernet port 10/100Mb
- Embedded modem option: PSTN, GSM/GPRS
- Operates on a license-free 2.4 GHz ISM radio band with 15 user-selectable channels
- CE-, FCC-, and Industry Canada-compliant
- RoHS-compliant

Multi-Function Command, Control, and Communication

The MeshScape Wi-Site is a multi-function device that performs data-logging of the sensors, stores schedule- or rule-based control set points, and communicates information via a web-enabled application. It consists of an integrated controller and a MeshGate.

It gathers and stores data from the network nodes of the wireless sensor network and periodically transmits it over the internet. The Wi-Site can store information for days if needed and uploads as required, providing continuous and independent site operation.

The Wi-Site serves as the focal point of a MeshScape wireless network. Communication between each Wi-Router and the Wi-Site can span at least 750 feet, depending on the local conditions affecting radio transmission. The MeshScape Networking System is scalable to include hundreds of nodes and cover thousands of feet.

Faster, Simpler Installation

The Millennium Net Wi-Site integrated site controller and MeshGate eases implementation onsite. The Wi-Site presents structured sensor data to its applications via FTP mechanisms and functions as the single access point to all external applications, making networking simpler and facilitating system integration. It works as a wireless gateway and controller that enables network monitoring and management of the wireless mesh network. Sustained local connection to a remote monitoring and control application, such as Millennium Net's Wi-EMS, is possible through the Wi-Site's ability to function independent of internet connectivity.

Try it for yourself

Setting up a wireless mesh network is fast and easy. The MeshScape self-forming and self-healing network is designed for rapid deployment and easy operation.

For more information, visit www.millennialnet.com

MeshScape 4 Networking

The industrially-proven MeshScape 4 networking system is delivered on the MeshGate gateway and Mesh Node routers. MeshScape 4 employs patented Persistent Dynamic Routing (PDR) techniques to form a self-configuring wireless mesh network. PDR uses a node-initiated network formation to enable efficient topology discovery and uses "best route" information to facilitate network re-formation (required in ever-changing RF environments). With MeshScape, you can deploy industrial-class wireless mesh networks that are:

- **Self-administrating:** a self-forming and self-healing mesh network requires no administration
- **Robust:** a network that ensures multi-route, reliable data transmission over extensive distances
- **Responsive:** a network that quickly adapts to changes in topology and radio frequency (RF)
- **Power-efficient:** very low power consumption
- **Scalable:** with the application, can scale to hundreds of wireless nodes with minimal overhead
- **Low latency:** very short network data delivery times



The MeshScape Wi-Site is an integrated, multi-function product that performs wireless mesh network management, logs sensor and network data on-site, stores schedule- or rule-based control set points, and communicates information via a web-enabled application.

Remote Monitoring/Control Software Features

As a MeshScape-compatible device, the Wi-Site may be combined with comprehensive remote monitoring and control applications, such as Wi-EMS, to form an integrated framework.