

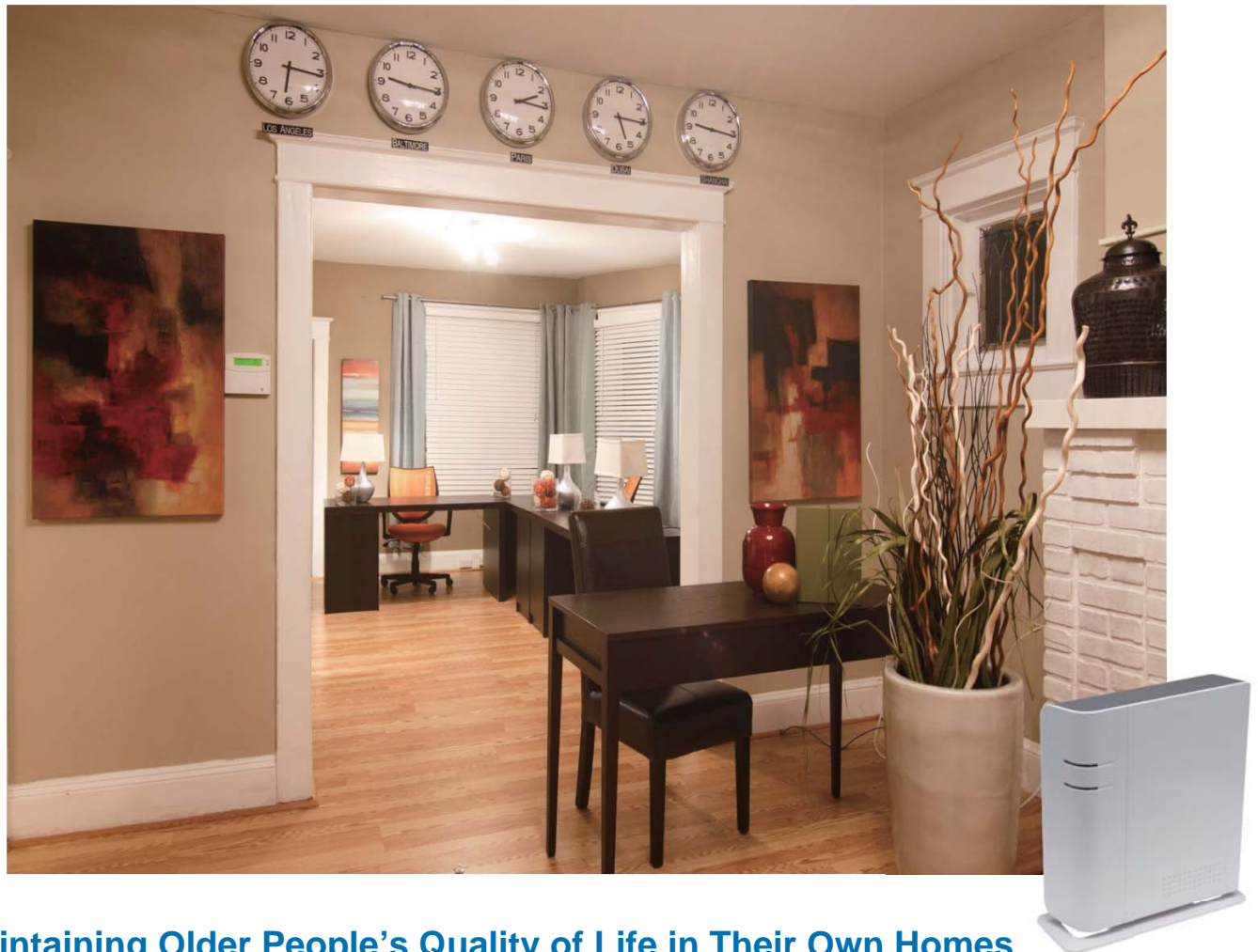
**Vesta Family**  
*Secure Your Way of Life*



## **Lifestyle Monitoring Gateway Series**

*Intelligent Care, Independent Living*

## Lifestyle Monitoring Gateway (LMGW) Series Telehealth Data Collection and Monitoring System



### **Maintaining Older People's Quality of Life in Their Own Homes**

Lifestyle Monitoring Gateway (LMGW) is a telehealth data collection system that monitors the well-being of older people in their own homes. Multiple super-speed RF sensors and devices can be linked to this gateway and installed throughout the house to collect detailed data about day-to-day behavior such as eating, sleeping, moving around and using facilities or appliances at home. The gathered data are sent by the gateway to a designated server for storage and analysis. Healthcare professionals can analyze the data to understand an individual's normal routines against which unusual activities can be identified and to provide well-constructed preventive or supportive mechanisms.

LMGW's comprehensive monitoring facilitates early detection of older adults' or seniors' changed life patterns and prompts early intervention to prevent loss of independence. The gateway helps maintain older people's quality of life in their own homes and enables them to remain at home as long as possible, thereby easing the potential burden of costly institutional care. Moreover, seniors can live with the assurance that care personnel will take immediate action to help them if any emergency happens.

The LMGW Series offers three models to establish different network connections and to expand installation flexibility.

LMGW-1F1: IP Gateway

LMGW-3F1: GPRS and GSM Gateway

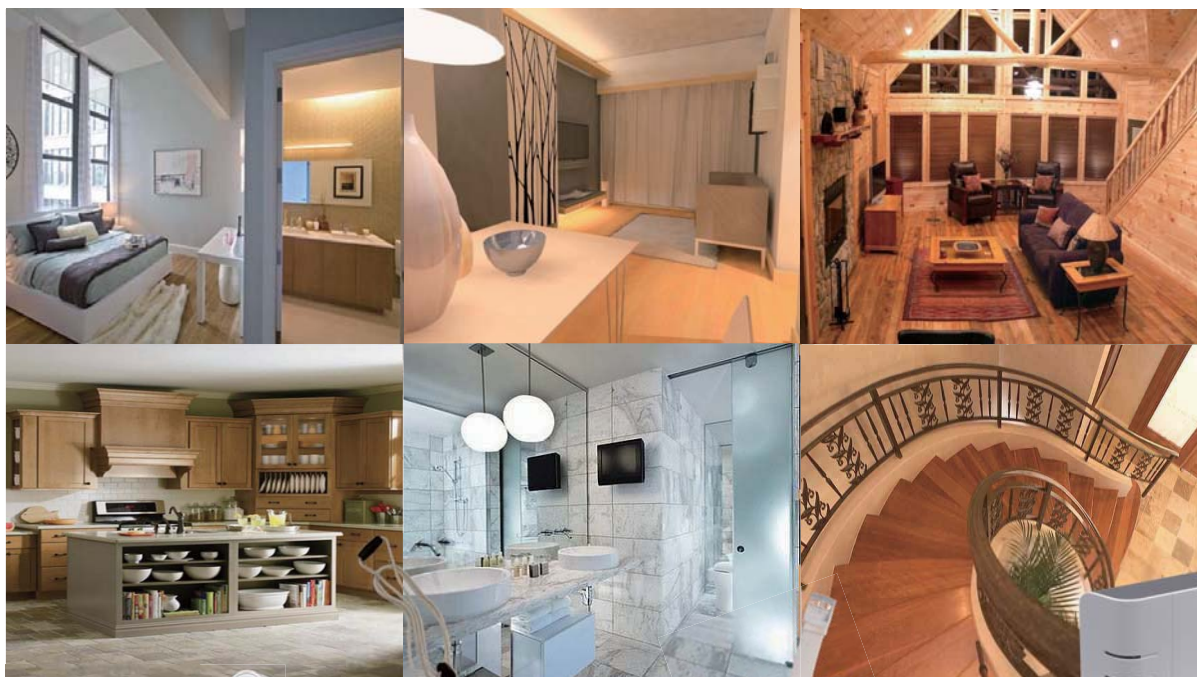
LMGW-8F1: IP, GPRS and GSM Gateway



## Multiple Monitoring Zones and Sensors

LMGW sets up 160 monitoring zones for comprehensive coverage of the entire home. The zones can integrate 160 sensors/devices, including Door Contact, PIR Motion Detector, Fall Sensor, Panic Button, Wrist Transmitter, Smoke Detector, Cancel Button, Carbon Monoxide Detector, Water Sensor, etc., to collect and transmit data through the gateway to a designated server.

Sensors and devices are installed throughout the house to monitor motions, device use, the opening/closing of doors, drawers, cabinets or a fridge, bed and chair occupancy, bath usage, time spent in a specific space or spaces, periods of immobility or inactivity, carbon monoxide, smoke and flood. Data are monitored and collected discreetly and care provided for older people in an unobtrusive manner.



## Super-Speed RF Communications and Wi-Fi Connections

Super-speed RF communications are implemented to enhance network performance for the smooth transference of large amounts of data. The system's RF modules accelerate the speed of transmission between the gateway and sensors/devices, largely reduce signal collisions, cut down on sensors' power consumption and extend sensors' life expectancy. Apart from adopting highly cost-effective RF solutions, the gateway can also establish Wi-Fi connections via an inserted Wi-Fi USB dongle.

## Real-Time Gateway-Server Communication

LMGW employs the XMPP protocol via TCP/IP networks for real-time communication with a designated server, which enables telecare personnel to monitor real-time information and view reports online. The gateway's time and date are automatically updated over IP/GPRS.

## Easy Programming and Remote Firmware Updates

LMGW offers remote web or SMS programming for easy configuration and maintenance. It has remote firmware update (RFU) capability to acquire the latest features.

## Features:

- 160 monitoring zones
- Capacity to integrate 160 RF sensors/devices, including Fall Sensor, Panic Button, Wrist Transmitter, Smoke Detector, Cancel Button, Door Contact, PIR Motion Detector, Water Sensor, Carbon Monoxide Detector and Remote Control
- Wirelessly transfers information gathered by sensors/devices installed in multiple locations at home to a designated server for storage, analysis and responsive measures.
- Communication protocols: Contact ID, Tunstall TTnew, and Climax CPC Dialect
- Super-speed RF communications to radically reduce signal collisions, lower sensors' power consumption and enhance network efficiency
- Supports Wi-Fi connections.
- Remote web or SMS programming for easy configuration and maintenance
- Remote firmware update capability
- Implements the XMPP protocol via TCP/IP networks to provide real-time communication between the gateway and a server.
- Enables monitoring personnel to acquire real-time information and view reports online.
- The gateway' s time and date automatically updated over IP/GPRS
- Supervises sensors regularly and reports detected faults to ensure system integrity.
- 800 event logs

## Specifications:

- GSM/GPRS interface: Quad band GSM 850/900/1800/1900MHz (LMGW-1F1 and LMGW-8F1 only)
- Frequencies available: 433MHz/868.6375MHz Narrow Band FM/869.2375MHz FM
- Radio frequency ranges: 433MHz FM: Over 200 meters in open space  
868.6375MHz Narrow Band FM: Over 300 meters in open space  
869.2375MHz FM: Over 400 meters in open space
- Power supply: 12V 2A DC adaptor
- Backup batteries: 1100mAh AA Ni-MH battery x 4
- Operating temperature: -10°C to +45°C
- Operating humidity: Up to 90% non-condensing
- Dimensions: 130 mm x 157.4 mm x 45 mm