Care@Home™
Control Panel

ES6502HC
Central Communications System

Product

The **Care@Home™** control panel is the central communication gateway for managing and communicating between the system peripherals, the **Care@Home™** cloud, the monitoring station, and the end-user applications.
The main capability of the **Care@Home™** control panel is the onboard **EMERGENCY CALL** button.

- Communication channel options:
  - PSTN
  - Cellular
- Two-way audio capability for communications with the monitoring station:
  - High quality, long range voice verification
  - Ultra-sensitive microphone
- Remote management and support capabilities:
  - Automatic software upgrade
  - Programming and configuration
  - Troubleshooting
- Safety functionality:
  - Onboard emergency SOS functionality
- General features:
  - Multi language vocal reminders
  - LED indications for system status
  - Pairing button to easily add system peripherals

Smart Care

Essence Care@Home™ multi service platform is an Aging-in-Place product suite that offers a seamless health monitoring experience allowing independence for seniors and peace of mind to their loved ones.

Care@Home™ allows service providers the flexibility to offer their customers services ranging from emergency alerting to a professional intelligent home care solution, which constantly learns and adapts to the daily behavior of individuals and provides alerts with different severity levels based on deviation from the daily routine.

The Care@Home multi service platform includes:

- Care@Home PERS + Advanced Emergency Response Alarm
- Care@Home Family Monitoring
- Care@Home Pro Intelligent Home Care Solution

Specifications

COMMUNICATIONS

- **Maximum RF range:** 1,000 m (3,280 ft.) – open air
- **Protocols:** proprietary bi-directional radio protocol
- **Frequency and Modulation**: FSK modulation
  - 869.225 MHz (Europe)
  - 868.3 MHz (China)
  - 916.5 MHz (North America and Australia)
- **Available communication channels**:
  - PSTN model
  - Cellular model:
    2G/3G/4G (HSPA+) wireless module options with quad band (850/900/1800/ 1700/1900/2100 MHz)
- **Data security**: 32-bit ID, over 4 billion combinations

POWER SUPPLY

- **Input** : 90-240 V_{AC}, 50/60 H_z external AC adapter
- **Backup double battery up to 40 hours of continuous operation**: 3.7 V, 1.4 Ah, li-polymer rechargeable battery

DIMENSIONS

- **Size**: (H x W x D): 153 x 153 x 72 mm – 6 x 6 x 2.9 in.
- **Weight (including battery)**: 560 g (1.23 lbs.)
- **Mounting**: desktop

ENVIRONMENT

- **Storage ambient temperature range**: -20ºC – 70ºC (-4ºF – 158ºF)
- **Operating ambient temperature range**: 0ºC – 49ºC (32ºF – 120ºF)
- **Operating humidity**: Up to 93%non-condensing

COMPLIANCE

- CE, FCC, IC, UL, cUL
- EN 50134-2, EN 50134-3, and 50134-5
- EN50136-2:2014 Category C
- AS4607
- **PSTN model**:
  - ANSI/TIA-968-B – Terminal equipment standard
- **Cellular model**:
  - AT&T and PTCRB
  - EN910-EUR – Global connection (GCF) requirements, as well as the global system for mobile communications standard EN 301 511

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ESUG05088 Rev. 2.1 For more information, go to: http://www.essence-grp.com/smart-care