![Essence Security logo]

EverGuard-Care Control Panel

ES6502HC

Personalized Home Care Solution

EverGuard-Care is a Personalized Home Care Solution designed for the growing population, disabled and people that suffer from dementia and that wishes to "age peacefully at home".

✓**Long-Range Deployments** - over 2000 feet RF reach

✓**Remote Monitoring of System Status -** temperature report embedded in every peripheral

✓**Various Communication Modules -** Cellular 3G/4G

✓**Reduced Shipment Costs -** compact, light-weight design

✓**Less Maintenance -** Long battery life

A discreet and passive monitoring of the individual's activities of daily living (ADL) assuring his/her wellbeing.

The system automatically learns the individual behavior and notifies upon nay abnormality.

With millions of systems and peripherals installed internationally, Essence Security is a technological and market leader in the field of advanced machine to machine solutions for homes, offices and full-service central monitoring stations

ES6502HC Control Panel Specifications

Wireless communication with the peripherals:
- Up to 1000 meters RF range (open air)
- End-to-end bidirectional ESI protocol
- Advanced radio supervision algorithm
- Modulation: BFSK
- Frequencies: 868.3 MHz or 916.5 MHz
- Encoding: 32-bit ID, over 4 billion combinations

High quality, long range voice verification:
- Two-way Audio
- Enhanced echo canceling DSP-based algorithm
- Speaker programmable gain
- Ultra sensitive microphone

Safety Functionality:
- Various Detectors (Water, Smoke, Gas, etc.)
- Extreme Temperature Detection
- Various panic (SOS) devices

Video (external camera):
- High Resolution & Quality Color motion JPEG Video* or JPEG Stills

Remote Control:
- Automatic Software Upgrade
- Remote Programming and Configuration

Electrical Power Supply:
- Input: 100-240 VAC, 50/60Hz - external AC adaptor
- Li-Polymer rechargeable backup battery for up to 36 hours - 3.7V, 1.4Ah

Communication Modules:
- Cellular Network: GSM/GPRS/EDGE/3G
- Cellular Module: Quad band (850/900/1800/1900 MHz)

Communication Modules:
- Interfacing protocols: SIA or Essence Proprietary Protocol (ESI)

Physical:
- Dimensions: 127x 127 x 72 mm (L x W x D)
- Weight: 560 grams (incl. battery)
- Color: White & Grey
- Mounting: Desktop, Wall, with Bracket

Environmental:
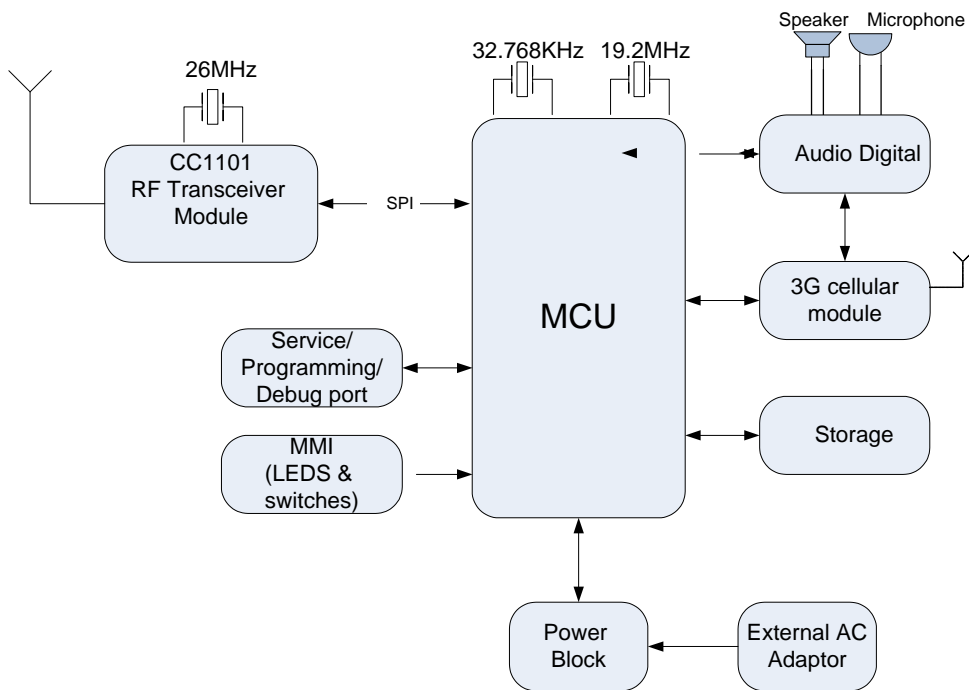- Operating Temperatures: 0°~ 49° Celsius

General Features:
- Personal Security
- Multi language vocal reminders
- Onboard SOS and call CMS buttons
- LED indications for system status

Certifications and approvals:

Essence Security International (E.S.I.) Ltd.
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Block Diagram Description

Control panel consists of:

1. Microcontroller

2. 3G modules communicating with central operation station using cellular network respectively.

3. RF transceiver (915MHz) for communication with the peripherals

4. Speaker/microphone connected to CODEC

5. LEDs indicating system statuses

6. Power block providing all necessary voltages

7. Backup battery

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