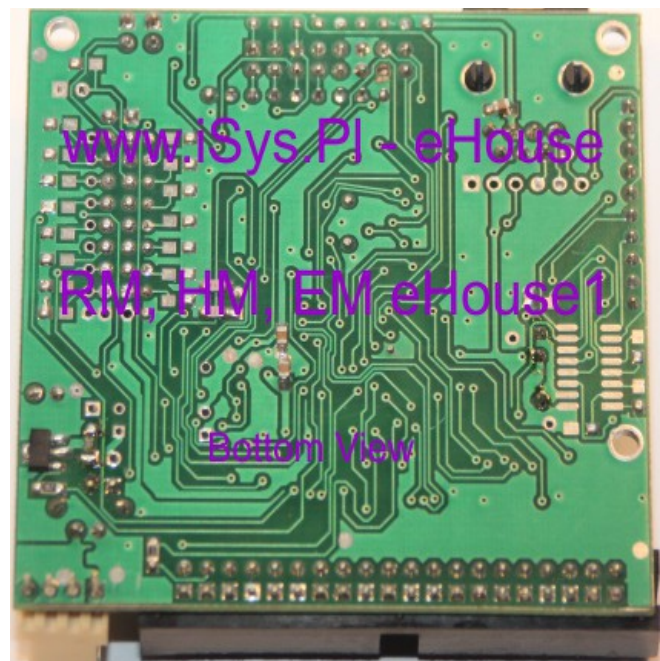
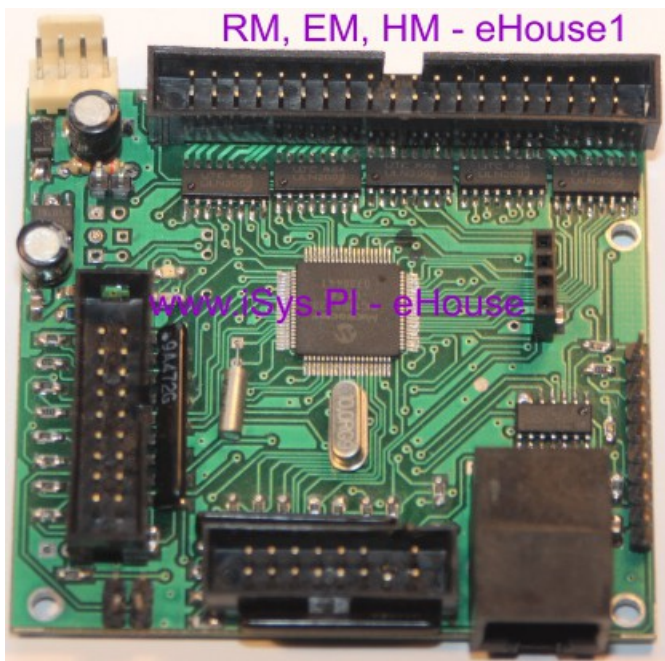


1.HeatManager (HM) - RS-485

HeatManager is self contained micro-controller optimized to integrate and manage dedicated and sophisticated boiler room equipment:

- ✓ boiler room
- ✓ central heating system
- ✓ ventilation
- ✓ bonfire
- ✓ recuperation and air handling systems
- ✓ Optimal and economic usage of renewable energy sources



For dimensions see RoomManager section. Pictures not in 1:1 scale.

1.1. Main functions of HeatManager

- ✓ RS-485 interface for communication over “eHouse 1” bus
- ✓ manage boiler
- ✓ control bonfire with water jacket and hot air distribution (HAD)
- ✓ manage ventilation and recuperation
- ✓ control ground heat exchanger (GHE) fan
- ✓ control water heater / cooler pump for ventilation
- ✓ auxiliary fan control for recuperation support



Smart Home, Building, Hotel, Office Automation System

- ✓ manage water heater (three ways cutout for adjusting air temperature or radiator)
- ✓ hot water buffer/tank management
- ✓ solar system
- ✓ over temperature alarm indicators : boiler, bonfire, solar system
- ✓ 16 ADC inputs (measurement points) dedicated to temperature sensors
- ✓ 3 PWM (pulse width modulation) outputs (low power)
- ✓ Programmable calendar and scheduler (248 positions) for unattended running HeatManager's events
- ✓ 24 programs of work incorporating settings of all parameters of heating, cooling, ventilation, recuperation
- ✓ 3 programs of ventilation:
 - manual
 - full auto
 - unconditional full auto

For picture and dimensions see RoomManager section.

- ✓ Modules can be painted with insulation materials on demand
- ✓ Modules may be RoHS or not on demand

1.2. "eHouse 1" Software Package

eHouse 1 system is also equipped with auxiliary software, working under.

1.2.1 eHouse1 software package for Windows XP, Vista, 7, 8

- ✓ continuous, stable eHouse1 system work
- ✓ monitoring devices state
- ✓ gateways to communication links as Ethernet, BlueTooth, Internet, SMS, FTP, WWW, eMail
- ✓ contains application for Visualization and graphic management of system
- ✓ allows easy, intuitive, secure configuration, naming of whole eHouse system from PC
- ✓ eHouse system event editing and creating
- ✓ scheduler editing and programming
- ✓ generating images for visualization purposes
- ✓ generating acoustic notifications
- ✓ creating eHouse system logs
- ✓ decoding IR remote controller signals
- ✓ updating time to devices and synchronization
- ✓ data and control exchange between modules
- ✓ updating new firmware to all devices
- ✓ controlling Winamp application (playing Audios managed by IR remote controller)
- ✓ receiving event from TCP (built in TCP/IP server)
- ✓ sending devices status to TCP panels
- ✓ playing Acoustic notifications



- ✓ sending SMS notification from security system

1.2.2 Linux software package eHouse4cServer

Supervision and integration of all version of eHouse system for linux platform currently for devices:

- ✓ RaspberryPi (ARM6)
- ✓ x64
- ✓ x86

Main Functions

- ✓ Web Browser integration
- ✓ Apache Web Server integration
- ✓ TCP Clients
- ✓ TCP Servers
- ✓ HTML request to other systems, applications, programs

1.2.3 Android (Java) - Control Panel Software since 2.3+

For mobile devices:

- ✓ Pods
- ✓ Pads
- ✓ SmartPhones
- ✓ SmartTV

Main functions:

- ✓ Text control
- ✓ Voice control (Speech recognition)
- ✓ graphical control
- ✓ Online status
- ✓ Graphical visualization individually designed
- ✓ Graphical automatic for each eHouse Controller
- ✓ Control via WiFi, Ethernet, LAN, Internet, SMS, eMail
- ✓ Online status via WiFi, Ethernet, LAN, Internet

1.2.4 Java - PC Control Panel Software

- ✓ Linux
- ✓ Windows
- ✓ other Java enabled system

Main functions:

- ✓ Text control
- ✓ graphical control



- ✓ Online status
- ✓ Graphical visualization individually designed
- ✓ Graphical automatic for each eHouse Controller
- ✓ Control via WiFi, Ethernet, LAN, Internet, SMS, eMail
- ✓ Online status via WiFi, Ethernet, LAN, Internet, TCPIP / UDP
- ✓ TCP/IP server for connecting external panels

1.2.5 Windows Mobile 6.x+ .Net, .Net Compact Framework - Control Panel for devices

- ✓ Pods
- ✓ Pads
- ✓ SmartPhones

Main functions:

- ✓ Text control
- ✓ graphical control
- ✓ Online status
- ✓ Graphical visualization individually designed
- ✓ graphical automatic for each eHouse Controller
- ✓ Control via WiFi, Ethernet, LAN, Internet, SMS, eMail
- ✓ Online status via WiFi, Ethernet, LAN, Internet

1.2.6 JavaScript script - for Web browser client side support

- ✓ online status
- ✓ online text control
- ✓ online graphical control
- ✓ online graphical visualization

1.2.7 CorelDraw VBA script

CorelDraw Visual Basic script is necessary for creating individual visualizations for all control panels types:

- ✓ HTML
- ✓ SVG
- ✓ XML
- ✓ Custom programmed formats (text)
- ✓ Windows XP, Vista, 7, 8 - PC, Pods, Pads
- ✓ Windows Mobile .Net, .Net Compact Framework - Pods, Pads, Smartphones
- ✓ Java - visualization and graphical control for PCs Java enabled platforms
- ✓ Android - visualization and graphical control for SmartPhones, Pods, Pads, SmartTV



Smart Home, Building, Hotel, Office Automation System

iSys - Intelligent Systems

<http://www.isys.pl/>

<http://home-automation.isys.pl/>

<http://home-automation.ehouse.pro/>

http://www.isys.pl/kontakt.producent_automatyki_ehouse.htm - Contact Us

- eHouse Home automation producer web page

- eHouse home automation "Do It Yourself"