



1.eHouse.PRO server with eHouse Hybrid interfaces and gateways

eHouse.PRO system can use few number of ARM Linux microcomputers equipped with required communication interfaces. Final parameters and interfaces depends on used microcomputer board as eHouse.PRO server. Linux based microcomputers (Raspberry PI, B+, 2, Banana PI/PRO, OrangePI etc.) has different set of accessories, interfaces, parameters so final decision depends on hybrid installation we want create, performance and power is minor factor here.

eHouse.PRO microcomputer is extended by eHouse Hybrid module with interfaces, gateways for connecting other eHouse versions directly to eHouse.PRO server (RF, RS-485, CAN).

1.1. Hardware resources of eHouse.PRO Server

eHouse.PRO server functionality (with installed ehouse hybrid interfacing module):

- ✓ ARM microcomputer board - 1, 2 or 4 cores (*)
- ✓ Ethernet, WiFi, SPI, I2C, RS-232, CAN, RF, HDMI, Stereo Audio Out, IR (Infrared), USB, SATA Interfaces(*) (**)
- ✓ Security system outputs (horn, monitoring, early warning, quiet alarm, warning light) (*) (**)
- ✓ SD card with installed Linux and eHouse.PRO server software
- ✓ RS485 interface for communication to „eHouse One” system (*) (**)
- ✓ Ethernet for integration eHouse LAN system and other devices
- ✓ GSM/SMS module for SMS notification from security system and SMS control (**)
- ✓ CAN interface for direct connection eHouse CAN controllers (*) (**)
- ✓ eHouse CAN/RF gateway for integration eHouse CAN and eHouse RF systems(**)

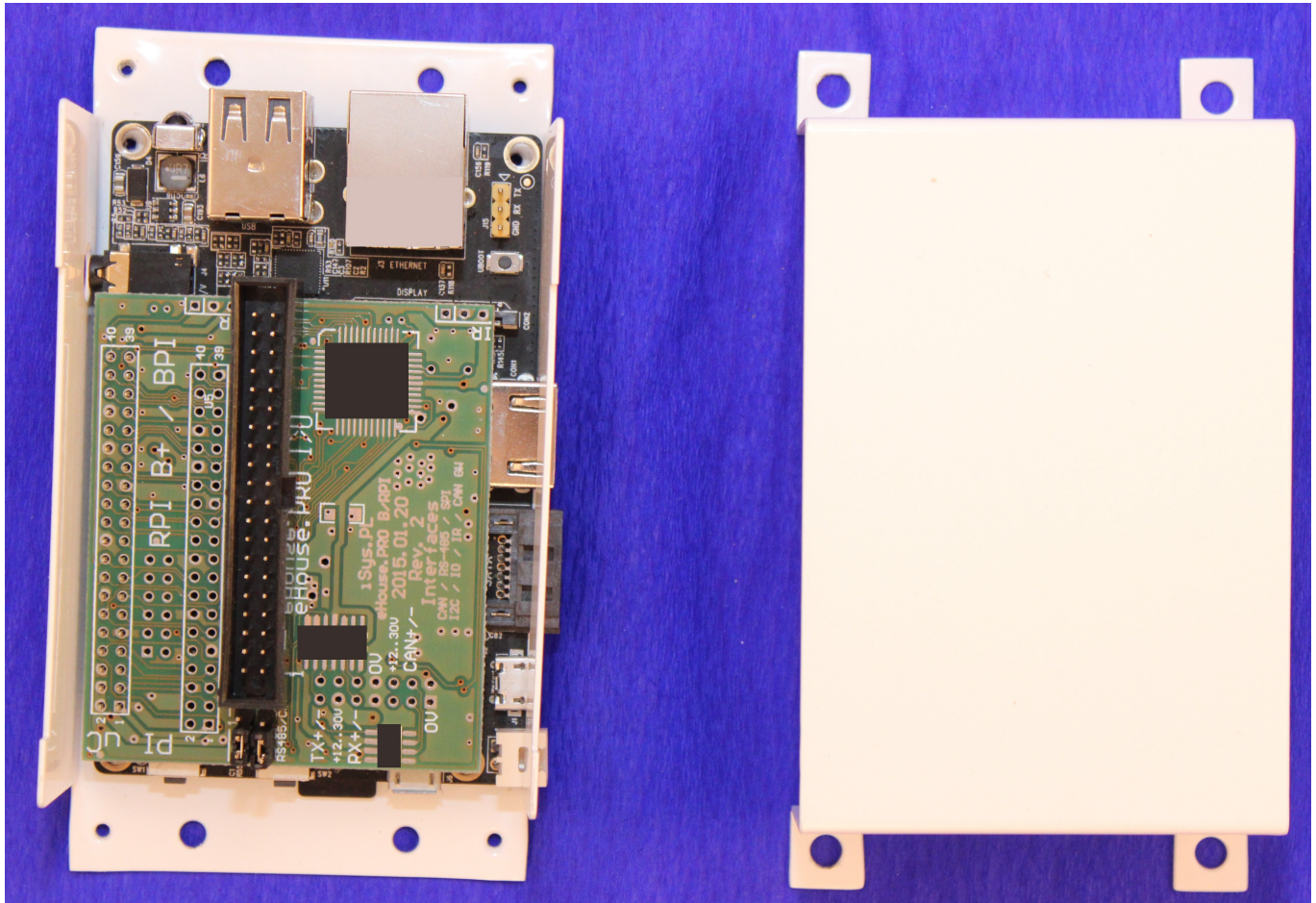
(*) depends on Linux microcomputer board

(**) optional resources

<http://www.isys.pl/download/ehouse-pro-catalog-doc-en.pdf>



Smart Home, Building, Hotel, Office Automation



Picture for information only Not for Reference may be changed during production and development.

Pictures are not in 1:1 scale.

Dimensions: 100*70*30mm without cover / 120*70*40mm with cover and may be changed during production and development

- ✓ Modules may be RoHS or not on demand
- ✓ Installable Product RoHS not required for EU
- ✓ Complying with CE norms for (EMI)



1.2. eHouse.PRO binary Linux software package

eHouse.PRO assures supervision and integration of all versions of eHouse system.

Currently supported Linux versions:

- ✓ RaspberryPi, B+, 2 or other based on ARM11
- ✓ Banana PRO/PI
- ✓ x64
- ✓ x86
- ✓ Other Linux boxes may be developed depending on availability on the market

1.3. eHouse4Apache Module

Loadable Apache Web server module for increase its functionality.

- ✓ Enables integration of eHouse PRO with Apache WWW server
- ✓ transfer data between web browser and eHouse PRO
- ✓ transmit events, commands, configuration
- ✓ send statuses to web browser

1.4. Libraries and scripts in most important programming languages:

- ✓ Delphi, Pascal (*)
- ✓ C, C++
- ✓ C#, .Net, .Net Compact Framework (*)
- ✓ Java, Java Mobile (MIDP) (*)
- ✓ Android (Java)
- ✓ VBA – Visual Basic
- ✓ PHP
- ✓ SVG, XML
- ✓ HTML
- ✓ JavaScript

Libraries are individually distributed base on license agreement and fees.

(*) - only for eHouse Hybrid (eHouse LAN, RS-485 **without CAN/RF, PRO**)



Smart Home, Building, Hotel, Office Automation

2. Documentation

Most current documentation in English are located at producer home page:

http://home-automation.isys.pl/ehouse_doc.intelligent_house_building_doc.htm

Source code examples, templates, libraries: <http://isys.pl/download/>

Do It Yourself information: <http://smart.ehouse.pro/> - **eHouse Blog**

Details DIY, Programming, Designing, Instalation, Configuration, Articles, tips & tricks:

<http://smart.ehouse.pro/category/applications/> - eHouse applications

<http://smart.ehouse.pro/category/boilerroom/> - Boiler Room & Central Heating

<http://smart.ehouse.pro/category/building-management/> - Building Management General Info

<http://smart.ehouse.pro/category/design/> - eHouse Design, solutions, demos

<http://smart.ehouse.pro/category/ehouse4can/> - eHouse4CAN – Installation, Configuration

<http://smart.ehouse.pro/category/ehouse-lan/> - eHouse Ethernet – Installation, Configuration

<http://smart.ehouse.pro/category/ehouse-rs-485/> eHouse 1 – Installation, Configuration

<http://smart.ehouse.pro/category/ehouse-pro/> - eHouse.PRO – Installation, Configuration

<http://smart.ehouse.pro/category/renewableenergy/> - free and renewable energy usage

<http://smart.ehouse.pro/category/general/> - eHouse general info

<http://smart.ehouse.pro/category/integrationcontrol/> - Integration to other systems, devices, A/V

<http://smart.ehouse.pro/category/openremote/> - Integration with OpenRemote.ORG

<http://smart.ehouse.pro/category/os/linux/> - Linux programming for eHouse - „C”

<http://smart.ehouse.pro/category/os/windows/> - Windows programming

<http://smart.ehouse.pro/category/programming/android/> - Mobile Devices PADs, SmartPhone, SmartTV, Android programming , screenshots for eHouse

<http://smart.ehouse.pro/category/programming/apache/> - Apache integration to eHouse.PRO server

<http://smart.ehouse.pro/category/programming/csharp/> - C#, .Net, .Net CF programming

<http://smart.ehouse.pro/category/programming/c/> - C programming for Linux

<http://smart.ehouse.pro/category/programming/delphi/> - Delphi, Pascal programming for Windows

<http://smart.ehouse.pro/category/programming/java/> - Multiplatform Java programming,



Smart Home, Building, Hotel, Office Automation

screenshoots

<http://smart.ehouse.pro/category/programming/windows-phone/> - Windows Mobile, Phone programming

<http://smart.ehouse.pro/category/programming/www/> - Web browser support for eHouse

<http://smart.ehouse.pro/category/visualization/> - Creating individual visualization and graphical control views

3. Contact and Cooperation

iSys – Intelligent Systems

Wygoda 14, 05-480 Karczew

Poland

tel: +48504057165

email: is@isys.pl

GPS: (N:52 st 2min 44.3s; E:21st 15min 49.19s)

[Map](#)

Producer, manufacturer, developer home page in English:

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

<http://smart.ehouse.pro/> - Do It Yourself, designing, development, examples, applications

<http://eHouse.Biz/> - eHouse smart home producer online shop

http://www.isys.pl/?home_automation - Other Languages (for information only not for reference)

Serwisy eHouse w języku polskim:

<http://inteligentny-dom.ehouse.pro/> Zrób to sam, programowanie, przykłady, projektowanie, zastosowania

<http://www.isys.pl/> - strona WWW producenta

<http://ehouse.net.pl/> - sklep internetowy producenta inteligentnego domu eHouse

<http://www.ehouse.pro/> - Automatyka domu, budynku, hoteli, pensjonatów

<http://sterowanie.biz/> - Sterowanie domem, budynkiem, mieszkaniem