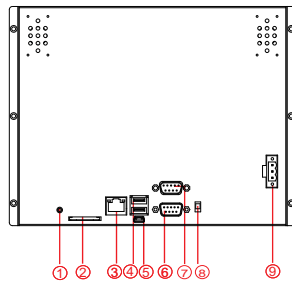


# R08SA20-OFA1HM

8" Panel PC (ARM-11 Platform)

Mechanical Design



1. Boot from SD card Button
2. SD Card Slot
3. LAN
4. 2 x USB(Host)
5. 1 x Mini USB(Client)
6. RS422/485(Default 485)
7. RS232
8. Power Switch
9. Power Receptor

Fully Integrated I/O

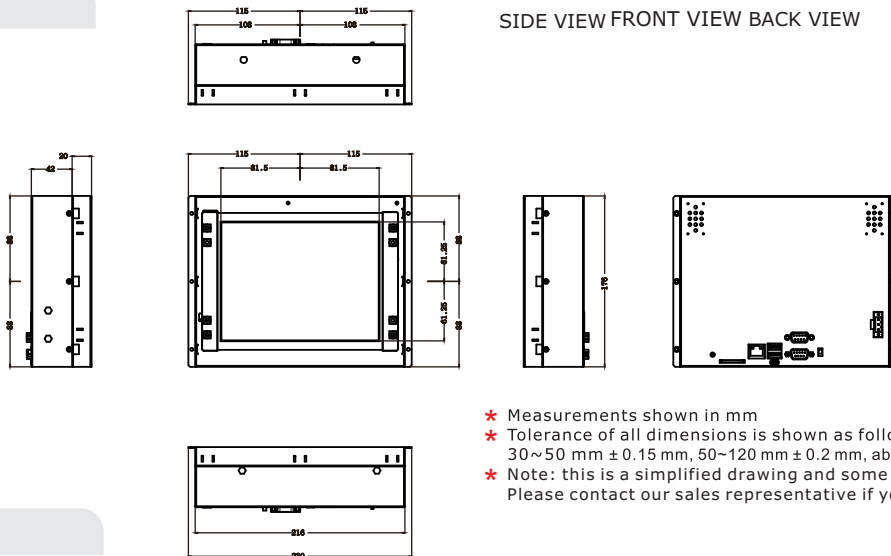
## Features

- Samsung-6410 Processor on board
- 8" WVGA LCD
- Super slim and compact design with metal housing
- Fanless cooling system
- Built-in NAND flash memory
- One Standard SD card slot
- Aluminium Front Bezel

## Introduction

The R08SA20-OFA1HM model is compact platforms without redundant functions, which has been designed for small-sized operator interface applications. It has 7" LCD which is a cost effective choice for a limited budget. Its RISC kernel, the Samsung 6410 processor consumes minimum power without sacrificing performance. The W07SA20-PMA2HM has 10/100Base-T Ethernet port and WIFI 802.11 b/g offering solid communication ability and comes bundled with a Windows CE 6.0 and Linux 2.6.24 that supports Thin-Client solutions. The built-in Windows CE6.0 and Linux 2.6.24 OS platform lets R08SA20-OFA1HM become an Open HMI solution for system integration.

## Dimensions



- \* Measurements shown in mm
- \* Tolerance of all dimensions is shown as follow 0~30 mm  $\pm 0.1$ mm, 30~50 mm  $\pm 0.15$  mm, 50~120 mm  $\pm 0.2$  mm, above 120 mm  $\pm 0.25$  mm
- \* Note: this is a simplified drawing and some components are not marked in detail. Please contact our sales representative if you need further product information.

## Specifications

### System:

|                     |                                                  |
|---------------------|--------------------------------------------------|
| • CPU               | : Onboard SAMSUNG 6410 Processor (667MHz)        |
| • System Memory     | : Onboard DDR-266 128MB                          |
| • NAND Flash        | : Onboard 256MB                                  |
| • Expansion Slots   | : Standard SD card slot                          |
| • Ethernet          | : DAVICOM DM9000B                                |
| • Audio             | : AC97 Audio(WOLFSON WM9714L)                    |
| • USB               | : 2 x USB type-A 1.1(Host)                       |
| • Mini USB          | : 1 x Mini USB (Client)                          |
| • Serial Ports      | : 1 x RS232, 1 x RS232/485                       |
| • Power Receptor    | : Screw Type Power Terminal Block                |
| • OS Default        | : Windows CE6.0 EmbedSys ESD OEI CD Core Runtime |
| • Power Consumption | : 5.85W                                          |
| • Power Input       | : 12V DC in                                      |

### LCD Display:

|                        |                        |
|------------------------|------------------------|
| • Size/Type            | : 8"TFT                |
| • Resolutions          | : 800x600              |
| • Luminance (cd/m2)    | : 250 (typ.)           |
| • Contrast Ratio       | : 500:1 (typ.)         |
| • Viewing Angle (H/V°) | : -70~70(H); -60~65(V) |
| • Max Colors           | : 262.144(6bits/color) |

### Mechanical Specification:

|                     |                     |
|---------------------|---------------------|
| • Cooling System    | : Fanless design    |
| • Mounting          | : Panel Mount (6mm) |
| • Dimension (WxHxD) | : 218 x 164 x 58 mm |

### Environment Considerations :

|                         |                                  |
|-------------------------|----------------------------------|
| • Operating Temperature | : -20 ~ 70°C                     |
| • Operating Humidity    | : 30% ~ 90% (non-condensing, RH) |

### Default :

|         |                          |
|---------|--------------------------|
| • Touch | : 4 Wires Resistive      |
| • OS    | : Win CE6.0 Core Runtime |

### Software Support :

|                          |                            |
|--------------------------|----------------------------|
| • Linux ( Kernel 2.6.32) | : QT embedded V4.7 Browser |
|                          | : Toll Chain               |
|                          | : BSP for 2.6.24           |
|                          | : Uboot                    |
|                          | : Example and test program |
|                          | : Eboot                    |
| • Win CE                 | : BSP for 6.0 R2           |
|                          | : SDK                      |



| Rev. | Reasons       | Revised Date |
|------|---------------|--------------|
| 1.0  | First release | Feb-29-12    |
|      |               |              |
|      |               |              |