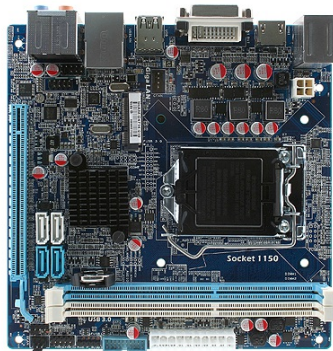




## SEMX-H81

Intel® 4th Generation Core™ Refresh i7/ i5/ i3, Pentium® and Celeron® Processors Mini ITX Motherboard with Intel® H81 Chipset

- > Intel® LGA1150 Socket Supports 4th Generation Core™ Refresh i7/i5/i3, Pentium® and Celeron® Processors (Max. TDP at 84W)
- > Intel® H81 Chipset
- > 2 x 240-pin DDR3 1333/1600 MHz DIMM supports up to 16 GB
- > VGA, HDMI, DVI-D
- > 1 x Realtek RTL8111E PCIe Gigabit Ethernet
- > Realtek ALC892 Supports 7.1-CH HD Audio
- > 1 x PCIe x 16, 1 x Mini PCIe
- > 2 x SATA III, 2 x SATA II
- > 7 x USB 2.0, 2 x USB 3.0
- > 1 x RS-232, 1 x S/PDIF
- > ATX Power

### + Spec

| System                     |                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Processor                  | Intel® LGA1150 Socket Supports 4th Generation Core™ Refresh i7/i5/i3, Pentium® and Celeron® Processors (Max. TDP at 84W) |
| System Chipset             | Intel® H81 Chipset                                                                                                       |
| System Memory              | 2 x 240-pin DDR3 1333/1600 MHz SO-DIMM supports up to 16 GB                                                              |
| I/O Chip                   | Nuvoton NTC5532D                                                                                                         |
| BIOS                       | AMI uEFI BIOS, 128Mbit SPI Flash ROM                                                                                     |
| Watchdog Timer             | H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step                                                                |
| H/W Status Monitor         | Monitoring CPU & System Temperature and Voltage                                                                          |
| Expansion                  |                                                                                                                          |
| Expansion                  | 1 x PCIe x 16<br>1 x Mini PCIe                                                                                           |
| I/O                        |                                                                                                                          |
| USB                        | 7 x USB 2.0<br>2 x USB 3.0                                                                                               |
| COM Port                   | 1 x RS-232                                                                                                               |
| MIO                        | 1 x PS/2 Keyboard or Mouse                                                                                               |
| Other                      | 1 x S/PDIF-out Header                                                                                                    |
| Display                    |                                                                                                                          |
| Chipset                    | Intel® 4th Generation CPU integrated<br>VGA + DVI-D, VGA + HDMI, DVI-D + HDMI                                            |
| Resolution                 | VGA: 1920 x 1200 @ 60Hz<br>HDMI: 4096 x 2160 @ 24Hz<br>DVI-D: 1920 x 1200 @ 60Hz                                         |
| Audio                      |                                                                                                                          |
| Chipset                    | Realtek ALC892 supports 7.1-CH                                                                                           |
| Audio Interface            | Mic-in, Line-out, Line-in, Rear R/L, S/PDIF-out                                                                          |
| Ethernet                   |                                                                                                                          |
| Chipset                    | 1 x Realtek 8111E                                                                                                        |
| Ethernet Interface         | 10/100/1000 Base-Tx GbE compatible                                                                                       |
| LAN Port                   | 1 x RJ-45                                                                                                                |
| Mechanical & Environmental |                                                                                                                          |
| Power Requirement          | +12V/+5V/5Vsb/+3.3V/-12V                                                                                                 |
| Power Type                 | ATX                                                                                                                      |
| Operating Temp             | 0°C ~ 60°C (32°F ~ 140°F)                                                                                                |
| Storage Temp               | -40°C ~ 75°C (-40°F ~ 167°F)                                                                                             |
| Operating Humidity         | 0% ~ 90% Relative Humidity, Non-condensing                                                                               |
| Dimension (L x W)          | 6.69" x 6.69" (170mm x 170mm)                                                                                            |
| Weight                     | 0.88lbs (0.4kg)                                                                                                          |

### + Ordering

SEMX-H81-A1R  
Intel® 4<sup>th</sup> Generation Core™ Refresh i7/ i5/ i3, Pentium® and Celeron® Processors Mini ITX Motherboard with Intel® H81 Chipset

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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