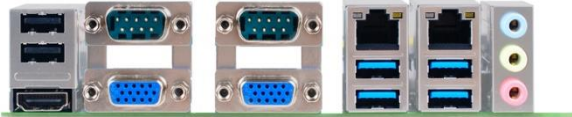


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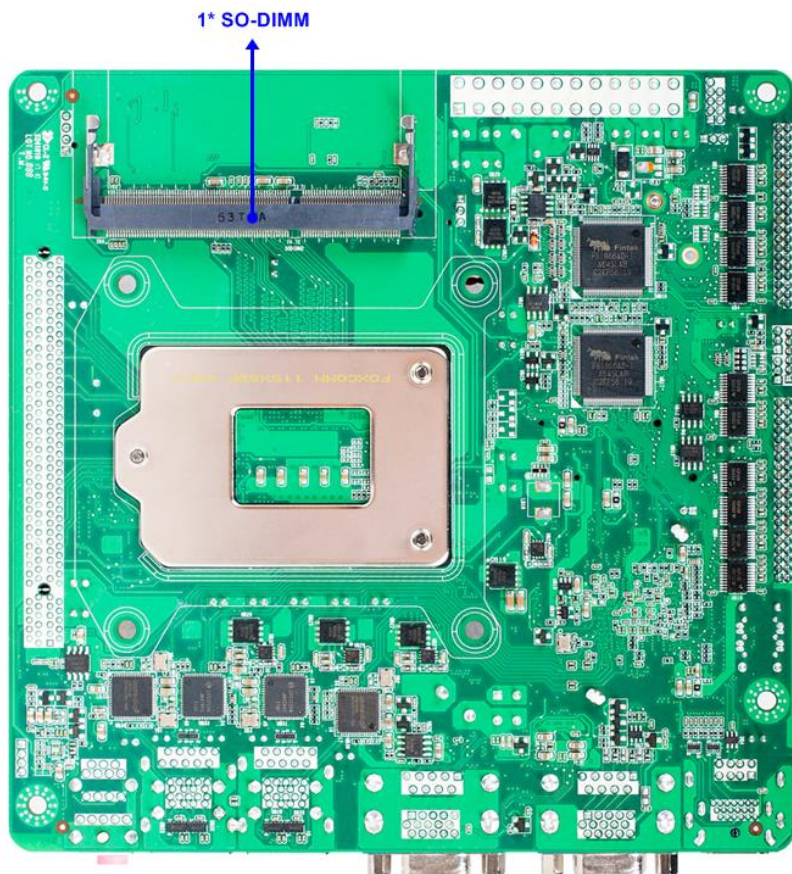
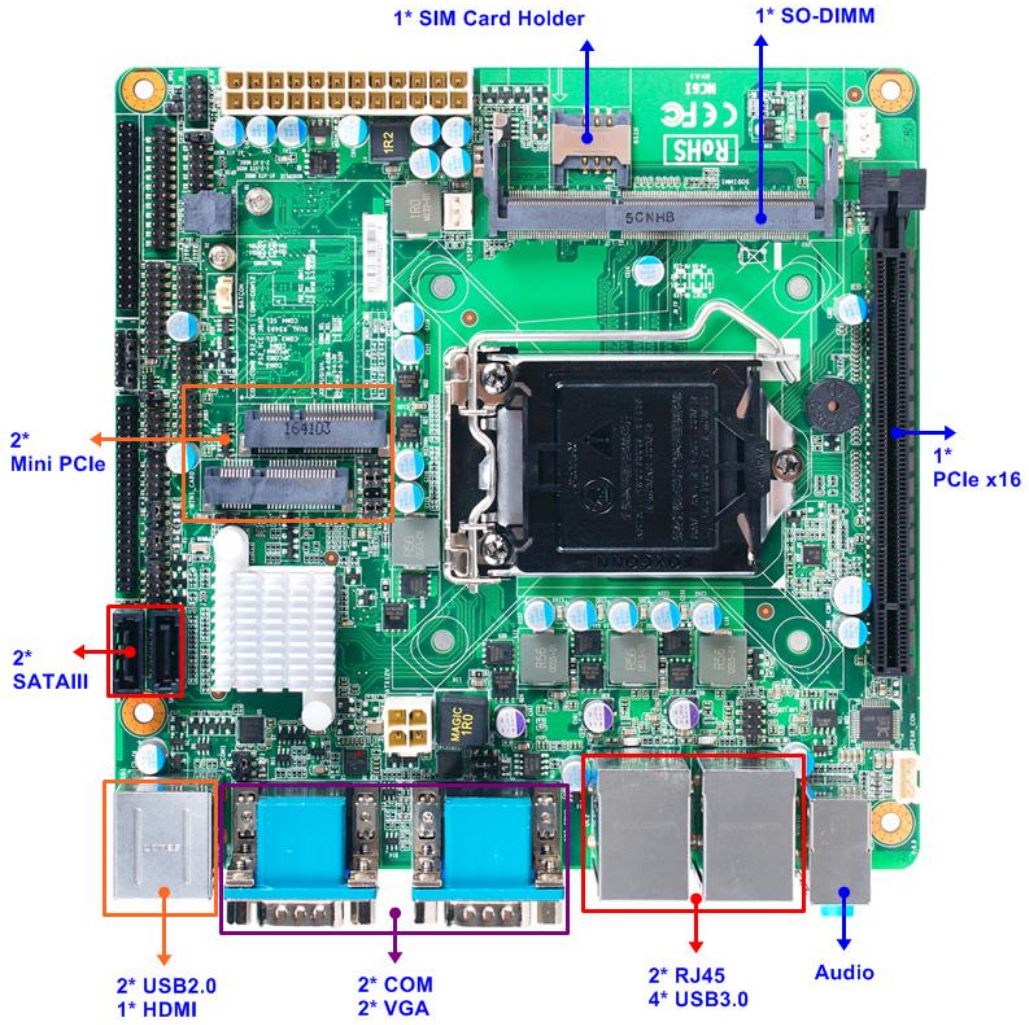
**Intel 4th Gen core CPU, DDR3/DDR3L 1600/1333 up to 16GB,
12 * COM, 4 * USB3.0, 8 * USB2.0**



Features

1. Support Intel® 4th Gen core processors family
2. Intel® H81 Express Chipset
3. Support DDR3 /DDR3L 1600/1333 up to 16GB
4. 4 * USB3.0 (PCI-E to USB3.0), 8 * USB2.0, 2 * GbE
5. 2 * SATA Ports, 1 * PCI-Ex16 Slot
6. 1 * M-SATA (Co-lay Mini PCI-e,Full size)
7. 2 * Mini PCIe connector(Full size)
8. 12 * RS232(COM1/COM2 support RS232/422/485, COM3/COM4 support RS232/485)
9. 2 * CRT Ports (CRT2 support Dummy load function)
10. SIM Card Socket, TPM Header
11. 4 Phase CPU Power Support 84W CPU
12. Integrated HD Audio CODEC with 6.0 CH

Internal Diagram



Specifications

Form Factor	
Dimensions	- Mini-ITX (170 * 170mm)
Processor System	
CPU	- Intel LGA 1150 Socket Core i7/i5/i3/Pentium Processor
Core Number	- (by CPU)
Max Speed	- (by CPU)
L2 Cache	- (by CPU)
Chipset	- Intel H81 Express chipset
BIOS	- AMI 32Mb Flash ROM
Expansion Slot	
PCI	- 0
Mini PCI-e	- 2 (full size)
m-SATA	- 1 (full size ,Co-lay Mini PCI-e)
PCI-e	- 1 (by 16)
TPM Header	- 1
SIM Card Socket	- 1
Memory	
Technology	- DDR3/DDR3L 1600/1333MHz
Max.	- 16GB
Socket	- 2* SO-DIMM
Graphics	
Controller	- Intel ® HD Graphics
VRAM	- Shared system memory
VGA	- 2 (Max. Resolution: 1920×1200@60Hz)
HDMI 1.4b	- 1 (Max. Resolution: 2560×1600@60Hz)
Ethernet	
Ethernet	- 10/100/1000 Mbps
Controller	- GbE LAN:2* Intel i211AT
Connector	- 2 * RJ 45
SATA	
Max Data Transfer Rate	- 2 * SAT3.0 (6.0Gb/s)
Rear I/O	
VGA	- 2
HDMI	- 1
Ethernet	- 2
USB	- 4 * USB 3.0 + 2* USB2.0

Audio	- 1 (3JACK)
Serial	- 2(RS232/422/485)
Internal Connector	
USB	- 6 *USB2.0
PS/2	- 1
Serial	- 10 (COM3/COM4 Support RS232/485)
SATA	- 2 * SATA3.0
Mini PCI-e	- 2 (full size)
Parallel	- 1
M-SATA	- 1 (full size, Co-lay Mini PCI-e)
GPIO 8-bit	- 1 (4 * IN +4 * OUT)
TPM header	- 1
Chassis intrusion	- 1
Speaker Header	- 1
LAN LED Header	- 1
AT Mode	- 1
Watchdog Timer	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments, 0,1,2...255sec/min
Power Requirements	
Input PWR	- 4 Pin / 24 Pin ATX PWR Connector
Power On	AT/ATX Supported - AT : Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready
Certifications	
Certifications	- CE, FCC, RoHS, REACH
Environment	
Temperature	- Operating: 0°C – 60°C - Storage: -20°C – 85°C
Accessories	
F04-MB-056-F	- I/O Shield
G01-COM-H2M22-1F	- COM Cable
G01-SATA-BK-B-2F	- SATA Cable

*Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.