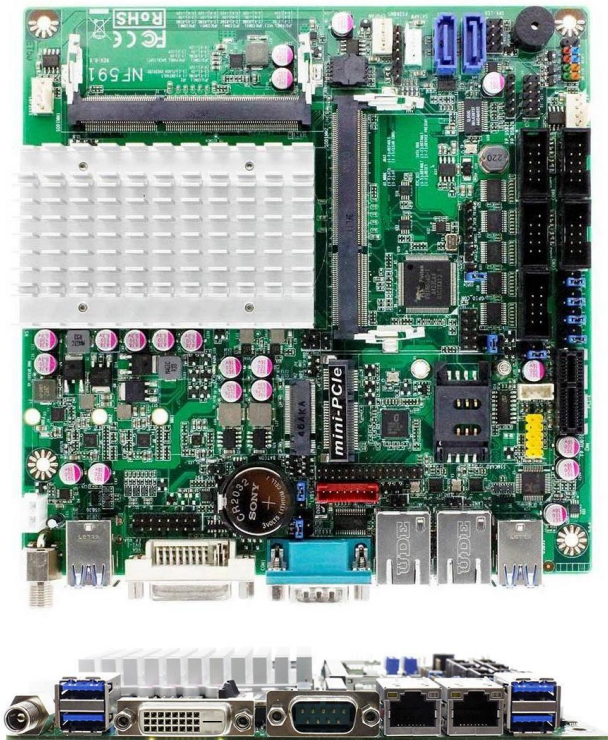
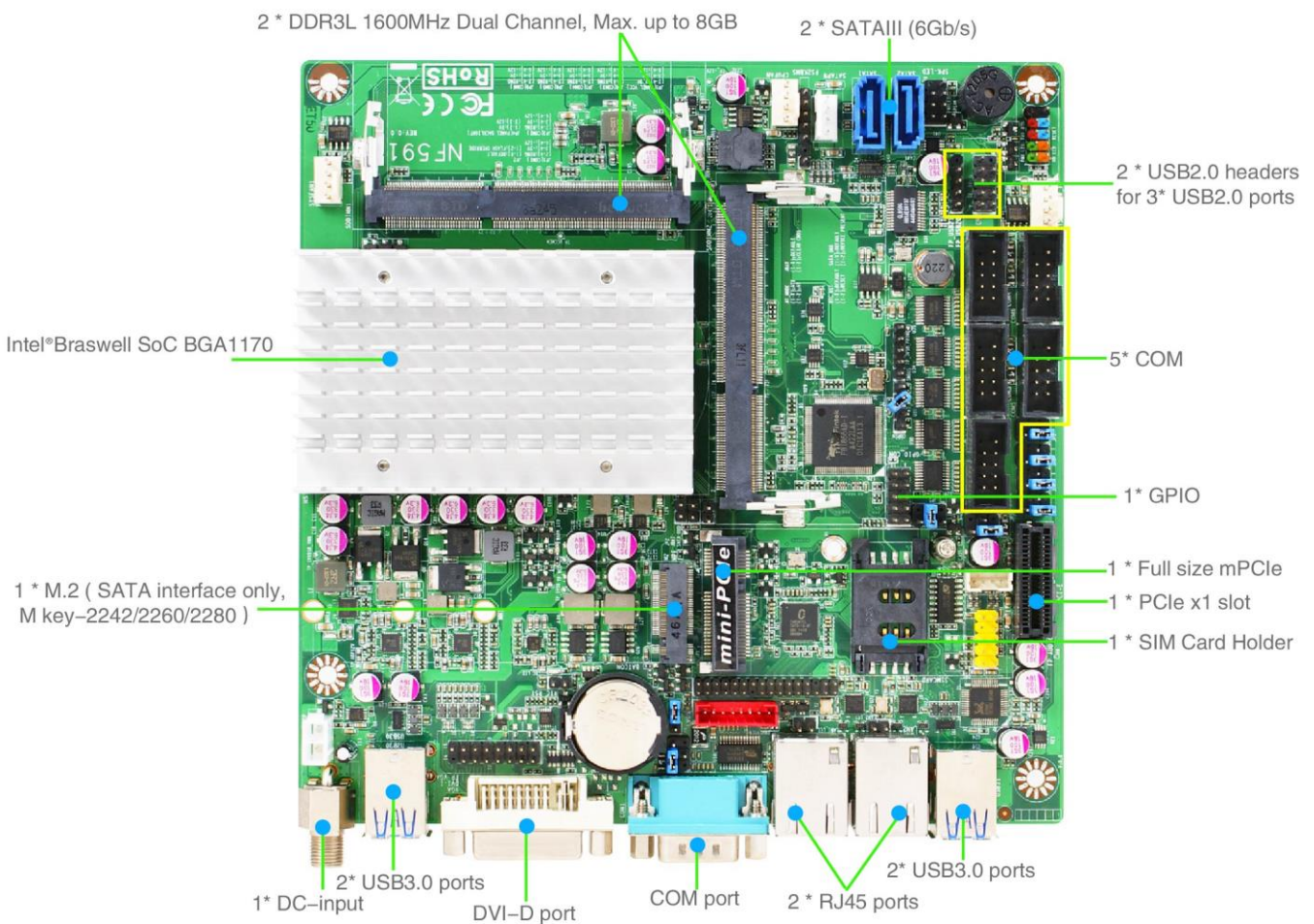


Mini-ITX Motherboard

NF591 Series



1. Intel® Braswell N3160 CPU
2. Support DDR3L 1600MHz Dual Channel, 2 * SO-DIMMs, Max. up to 8GB
3. Support VGA, DVI-D, LVDS 3 Independent Display
4. Realtek RTL8111G PCIe GbE, 2 * RJ45 ports
5. Support 2 * Serial ATAPII (6Gb/s)
6. 1 * COM (RS232/422/485), 5 * COM (RS232)
7. 4 * External USB3.0 & 3 * Internal USB1.1/2.0
8. 1 * PCIe x1 slot, 1 * Full size mPCIe
9. 1 * M.2 (SATA interface only, M key-2242/2260/2280)
10. 1 * SIM Card Holder
11. 1 * Internal 4 Channel Audio (Line out & MIC)
12. Lockable DC input over/under voltage protection
13. 3 * 4pin FAN type auto detection
14. Thin Mini-ITX Form Factor (170mm * 170mm)



Product Specifications

Form Factor

Dimensions - Slim Mini-ITX (6.7-in * 6.7-in, 170 * 170mm)

Processor System

CPU - Intel® Braswell - N Processor (default N3160 Celeron Processor)

Core Number - N3160: 4

Max Speed - N3160: 2.24GHz

L2 Cache - N3160: 2MB

Chipset - SoC

BIOS - AMI 64Mb Flash ROM

Expansion Slot

Mini-PCIe - 1 (full size)

M.2 - 1 (M-key, 2242/2260/2280, share with SATA2)

PCIe - 1 (x1)

SIM card holder - 1

Memory

Technology - Dual Channel DDR3L 1600 MHz SDRAM

Max. - 8GB

Socket - 2 * SO-DIMM

Graphics

Controller - Intel® HD Graphics

VRAM - Shared Memory

VGA - 1 (Internal, Max. Resolution: 1920 * 1200@60Hz)

DVI-D - 1 (DVI-D, Max. Resolution: 1920 * 1200@60Hz)

LVDS - 1 (24-bits Dual Channel, Max. Resolution: 1920 * 1080@60Hz)

HDMI - 0

MultiDisplay - Yes (3 Independent Display)

Ethernet

Ethernet - 10/100/1000 Mbps

Controller - PCIe GbE LAN: Realtek RTL8111G

Connector - 2 * RJ 45

Audio

CODEC - HD Audio: Realtek ALC662VD

Channel - 4 Channel

SATA

Max Data Transfer Rate - 2 * SATAIII (6.0Gb/s)







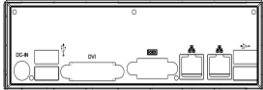
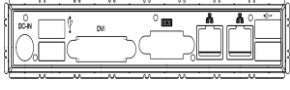
RAID - No

Rear I/O

VGA	- 0
DVI-D	- 1
HDMI	- 0
Ethernet	- 2
USB	- 4 * USB 3.0
Audio	- 0
Serial	- 1 * RS232/422/485 with 5V/12V selectable header
PS2	- 0
DC-input	- 1
Internal Connector	
VGA	- 1
USB	- 3 * USB 2.0
LVDS / inverter	- 1
Serial	- 5 * RS232 with 5V/12V selectable header
SATA	- 2
mPCIe	- 1 (full size)
mSATA	- 0
M.2	- 1 (SATA interface only, M key-2242/2260/2280, shared with SATAII)
SIM card holder	- 1
Chassis intrusion	- 1 (via 12pin header)
PS/2	- 1
GPIO	- 1 (4in/4 out)
SMBUS/ I2C	- 1 (I2C)
Audio Header	- 1 (Line Out & MIC)
Audio Amplifier Header	- 1 (3W Amp.)
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	- +12V Lockable DC-in PWR jack
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 (with 0.7m/s air flow) - Storage: -20°C – 85°C

*For further information please visit the website at <http://www.jetwayipc.com>

*The Specification may be changed without further notice.

Product Accessories				
Parts	Manual	CD Driver	SATA cable	SATA Power cable
P/N	G03-NF591-F	G02-DVD21-A4-WF	G01-SATA3-BL-F	G01-XH4-SA15-35F
Q'ty	1	1	2	1
Picture				
Parts	COM cable	VGA cable	I/O Shield	I/O Shield
P/N	G01-COM9-30A-F	G01-VGA+MAG30-F	F04-MB-038-F	F04-MB-039-F
Q'ty	1	1	1	1
Picture				

Product Application					
V	Panel PC (工業平板電腦)	V	Medical (醫療)	V	POE/Surveillance (安防監控)
V	Commercial (商業應用)	V	POS/KIOSK (零售系統)	V	Power (電力系統)
V	Banking (銀行金控)	V	Industrial Automation (工業自動化)		Mobile (移動系統)
	Military (軍方應用)	V	Transportation (交通)		Storage(Nas) (存儲系統)
V	Digital Signage (數字標牌)	V	Telecom (通訊)		I.O.T(物聯網)
V	Gaming (博奕)	V	Networking (網絡應用)	V	AIO(一体机)