

ApolloLake

Braswell

Bay Trail

Model	JNF694	JNF695	JNF591	JNF596	JNLBT-I1900	JNLBT-I1900-2L
Form Factor	Mini-ITX	Mini-ITX	Slim Mini-ITX	Mini-ITX	Slim Mini-ITX	Mini-ITX
Thermal Solution	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling
Chipset						
CPU	Intel Apollo Lake SOC CPU	Intel Apollo Lake SOC CPU	Intel Braswell SOC	Intel Braswell SOC	Intel Celeron J1900 (2.41GHz, Dual Core)	Intel Celeron J1900 (2.41GHz, Dual Core)
Memory	2x DDR3L SODIMM up to 8GB	2x DDR3L SODIMM up to 8GB	2x DDR3L SODIMM, up to 8GB	1x DDR3L SODIMM	1 * DDR3L 1333 SODIMM, up to 8GB	1x SODIMM DDR3L 1333
SATA	1 SATA 3.0	1 SATA3.0	2x SATA 3.0	1x SATA3.0	1 SATA 2.0	1 SATA 2.0
m.2	M Key (2242/2260)	M Key (2242/2260)	M key	No	No	No
m-SATA	No	No	No	Yes	Yes	Yes
Integrated Graphics	Intel GPU	Intel GPU	Intel GPU	Intel GPU	Intel	Intel
Audio	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD with 3W Amplifier	Realtek ALC662VD	Realtek ALC887 With 3W Amplifier	Realtek ALC887 With 3W Amplifier
LAN	Dual Gigabit LAN	Dual Gigabit LAN	Dual Gigabit LAN	Dual Gigabit LAN	Gigabit LAN	Dual Gigabit LAN
JetWay 100Pin	No	No	No	No	No	No
USB	4 Ext USB3.0 3 Int USB2.0	4 Ext USB3.0 6 Int. USB2.0	4 Ext. USB3.0 3 Int. USB2.0	4 Ext. USB3.0 3 Int. USB2.0	2 Int. USB2.0 3 Ext USB2.0 1 Ext. USB3.0	1 Ext USB2.0 3 Ext USB3.0 2 Int USB2.0
RS232	3 Ext RS232 1 Ext RS232/485 2 Int RS232	1 Int. RS232/485 9 Int. RS232	1 EXT RS232/RS422/485 5 Int. RS232 (All Powered 5V/12V)	1 EXT RS232/422/485 1 EXT RS232 4 Int. RS232	1 Ext. RS232/485/422 5 Int. RS232	1 Ext. RS232/485/422 5 Int. RS232
RJ11 (COM)	No	No	No	No	No	No
Parallel	No	No	No	No	1 Internal	external
HDMI	1x	1x	No	Yes	1 Internal	internal
VGA (D-SUB)	No	1x	1 Int	No	Yes	Yes
DVI	No	No	DVI-D	DVI-D	No	No
Display Port	1x	No	No	No	No	No
EDP	No	No	No	No	No	No
LVDS	1x 24bit Dual CH	1x 24bit Dual CH	24bit Dual Channel	24bit Dual Channel	24bit Dual Channel	24bit Dual Channel
PS/2	Internal	Internal	Internal	Internal	Internal	internal
PCI	no	no	no	no	no	no
PCI express x1	1x	1x	1x	1x	1x	1x
PCI Express x16	no	no	no	no	no	no
PCI Express Mini	1 Full Size	1 Full Size	Yes	Yes	Yes	Yes
TPM	Optional	Optional	No	No	No	No
SIM Card holder	Yes	Yes	Yes	Yes	No	No
SM Bus	Yes	Yes	I2C	I2C	No	No
GPIO	Yes	Yes	Yes	Yes	Yes	Yes
Power Requirement	ATX Power	12V DC-in	12V DC input	12V DC input	12V DC in, 4pin AT	12V DC in, 4pin AT

Daughter Board

JAD12VC	No	No	No	No	No	No
JAD3RTLANG	No	No	No	No	No	No
JAD3INLANG	No	No	No	No	No	No
JAD4COMC1	No	No	No	No	No	No
JAD4COMCB	No	No	No	No	No	No
JADE24LV	no	no	No	No	No	No
JADX24LV4C	No	No	No	No	No	No
JADPE4S	No	No	No	No	No	No
JADE4RTLANG	No	No	No	No	No	No
JADE4INLANG	No	No	No	No	No	No
JADE4COMCB	No	No	No	No	No	No
JADE4NVI3M	No	No	No	No	No	No
JADMPEOX4CA	Yes	Yes	Yes	Yes	No	No
JADMPEISLA	Yes	Yes	Yes	Yes	No	No
JADMPEIDLA	Yes	Yes	Yes	Yes	No	No
JADMPEASU3A	Yes	Yes	Yes	Yes	No	No
JADMPESIMB	Yes	Yes	Yes	Yes	No	No
ETB4G	No	No	No	No	No	No
ETB4B (BYPASS)	No	No	No	No	No	No
JADPIE1ILAN4	No	No	No	No	No	No
JADPI31COM4	No	No	No	No	No	No

Bay Trail

Model	JNF9M series	JNF9T series	JNF9N Series	JNF9U-2930	JNF9V-2930	JNF9W Series	JNC52-I1900
Form Factor	Slim Mini-ITX	Mini-ITX	Mini-ITX	Mini-ITX	Slim Mini-ITX	Slim Mini-ITX	Mini-ITX
Thermal Solution	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling
Chipset							
CPU	Intel Bay Taril ATOM E3827 Celeron N2930	Intel Bay Taril ATOM E3827 Celeron N2930 Celeron N2807	Intel Bay Taril Celeron N2930	SoC BGA Type Intel Bay Taril-M CPU N2930 / N2807	SoC BGA Type Intel Bay Taril-M CPU N2930	Intel Bay Taril ATOM E3827 Celeron N2930 Celeron N2807	Intel Celeron J1900 (2.41GHz, Dual Core)
Memory	2 * DDR3L 1333 SO-DIMM, up to 8GB	1 *1333 SO-DIMM, up to 8GB (N2807 up to 4GB)	2 * DDR3L 1333 SO-DIMM, up to 8GB	SODIMM DDR3L 1333 up to 8GB	SODIMM DDR3L up to 8GB	1 *1333 SO-DIMM, up to 8GB (N2807 up to 4GB)	2x SODIMM DDR3 1333
SATA	2 SATA 2.0 (1 share w/mSATA)	2 SATA 2.0 (1 share w/mSATA)	2 SATA 2.0 (1 share w/mSATA)	2 SATA 2.0	1 SATA2	2 SATA 2.0 2 SATA 3.0 (RAID)	1 SATA 2.0
m.2	No	No	No	No	No	No	No
m-SATA	Yes (share w/SATA)	Yes	Yes	Yes	Yes	No	Yes(Option)
Integrated Graphics	Intel	Intel	Intel	INTEL GFX	INTEL GFX	Intel	Intel
Audio	Realtek ALC662 With 3W Amplifier	Realtek ALC662 With 3W Amplifier	Realtek ALC662 With 3W Amplifier	Realtek ALC887GR W/3W Amplifier	Realtek ALC662VD W/3W Amplifier	Realtek ALC662VD (co-lay ALC888VD)	Realtek ALC887
LAN	Gigabit	INTEL 82583V Gbe	INTEL 82574L Gbe	Dual GBE LAN	1* Gigabit LAN	Gigabit	Gigabit LAN
JetWay 100Pin	No	No	Yes (2nd Gen)	No	No	No	No
USB	1 Ext USB3.0 2 Int USB3.0 3 Ext USB2.0 2 Int USB2.0	1 Ext. USB3.0 3 Ext. USB2.0 5 Int. USB2.0	1 Ext. USB3.0 3 Ext. USB2.0 4 Int. USB2.0	1 Ext USB3.0 3 Ext. USB2.0 4 Int. USB2.0	1 Ext USB3.0 3 Ext. USB2.0 4 Int. USB2.0	1 Ext USB3.0 3 Ext USB2.0 3 Int. USB2.0	2 Ext USB2.0 1 Ext USB3.0
RS232	1 Ext RS232/422/485 3 Internal RS232 (All Powered 5V/12V)	2 External 3 Internal	1 External 1 Internal	1 Ext. RS232 5 Int. RS232 (all 5V/12V Powered)	4 External (RJ45) 2 Internal	1 External 1 Internal	1 Int. RS232
RJ11 (COM)	No	No	No	Yes	Yes (12V/24V)	No	No
Parallel	1 Internal	1 External	1 Internal	External	Internal	No	No
HDMI	no	Yes	Yes	Yes	No	No	No
VGA (D-SUB)	No	Yes	Yes	Yes	Internal	No	1x
DVI	DVI-I	No	No	No	No	Yes	Yes
Display Port	No	No	No	No	No	No	No
EDP	No	No	No	No	No	No	No
LVDS	1x 24Bit Dual	1x 24Bit Dual	1x 24Bit Dual	24bit Dual Channel	24bit Dual Channel	1x 24bit Dual	24bit Dual Channel
PS/2	Internal	External	External	Yes	Yes	No	Yes
PCI	no	no	no	no	no	no	no
PCI express x1	1x	1x	1x	1x	1x	1x	no
PCI Express x16	no	no	no	no	no	no	no
PCI Express Mini	1 Full Size	1 Full Size	1 Full Size	Yes	Yes	1 Full Size	Yes
TPM	No	No	No	TPM1.2 option	NO	No	No
SIM Card holder	No	No	No	NO	NO	No	No
SM Bus	Yes	No	No	No	No	Yes	No
GPIO	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Requirement	+9V ~ + 36V DC-in	12V DC-in	12V DC-in	9V~24V DC in	12V DC-in	12V DC-in	ATX power

Daughter Board

JAD12VC	No	No	No	No	No	No	Yes
JAD3RTLANG	No	No	No	No	No	No	No
JAD3INLANG	No	No	No	No	No	No	No
JAD4COMC1	No	No	No	No	No	No	No
JAD4COMCB	No	No	No	No	No	No	No
JADE24LV	no	No	No	No	No	No	No
JADX24LV4C	No	No	No	No	No	No	No
JADPE4S	No	No	No	No	No	No	No
JADE4RTLANG	No	No	Yes	No	No	No	No
JADE4INLANG	No	No	Yes	No	No	No	No
JADE4COMCB	No	No	Yes	No	No	No	No
JADE4NVI3M	No	No	Yes	No	No	No	No
JADMPFOX4CA	Yes	No	Yes	No	No	Yes	No
JADMPISLA	Yes	No	Yes	No	No	Yes	No
JADMPIDLA	Yes	No	Yes	No	No	Yes	No
JADMPASU3A	Yes	No	Yes	No	No	Yes	No
JADMPESIMB	Yes	No	Yes	No	No	Yes	No
ETB4G	No	No	No	No	No	No	No
ETB4B (BYPASS)	No	No	No	No	No	No	No
JADPIE1ILAN4	No	No	No	No	No	No	No
JADPI31COM4	No	No	No	No	No	No	No

Desktop Intel Socket CPU Solution (Sandy Bridge/Ivy Bridge)

Model	JNC9F-H61	JNC9FL-H61	JNF9F-H61	JNF9A-Q67	JNF9E-Q77
Form Factor	Thin Mini-ITX	Thin Mini-ITX	Mini-ITX	Mini-ITX	Mini-ITX
Thermal Solution	Active Cooling	Active Cooling	Active Cooling	Active Cooling	Active Cooling
Chipset	Intel H61	Intel H61	Intel H61	Intel Q67	Intel Q77
CPU	Intel Core i7/i5/i3 /Pentium LGA1155	Intel Core i7/i5/i3 /Pentium LGA1155	Intel Core i7/i5/i3 /Pentium LGA1155	Intel LGA1155 Sandy Bridge CPU	Intel LGA1155 IVY Bridge Sandy Bridge CPU
Memory	2*DDR3 1333/1600 SO-DIMM, up to 16GB	2*DDR3 1333/1600 SO-DIMM, up to 16GB	2*DDR3 1333/1066 SO-DIMM, up to 8GB	2 x DDR3 1333, up to 8GB	2* SODIMM DDR3 1333, up to 16GB
SATA	2 SATA 2.0	2 SATA 2.0	4 SATA 2.0	2 SATA3 (6GB/s) 4 SATA2 (3GB/s)	2 SATA3 (6GB/s) 4 SATA 2 (3GB/s) RAID 10,1.5,10
m.2	No	No	No	No	No
m-SATA	Yes (Shared)	Yes	-	-	-
Integrated Graphics	Integrated by Intel i3/i5/i7 CPU	Integrated by Intel i3/i5/i7 CPU	Integrated by Intel i3/i5/i7 CPU	Integrated by Intel i3/i5/i7 CPU	Integrated by Intel i3/i5/i7 CPU
Audio	ALC892 W/3W AMP	ALC662VD W/3W AMP	Realtek ALC662	VIA VT1705	Realtek ALC662
LAN	Gigabit	Intel 82579LM Gigab	Gigabit	Dual INTEL Gigabit	Dual INTEL Gigabit
JetWay 100Pin	No	No	No	No	No
USB	2 External USB 3.0 2 External USB 2.0 2 Internal for 4	4 External USB 2.0 2 Internal for 4	2 External USB2.0 4 Internal USB2.0	6 External 2 internal for 4	2 External USB 3.0 4 External USB 2.0 1 Int USB3.0 for 2 2 Int USB2.0 for 4
RS232	1 Internal RS232	No	4 External RS232 1 Internal RS232 1 Internal RS485	1 External 1 Internal RS485	1 External 1 In RS232/422/485
RJ11 (COM)	No	No	No	No	No
Parallel	No	No	1 Internal	No	No
HDMI	Yes (1.4)	Yes (1.4)	No	Yes (1.4)	Yes (1.4)
VGA (D-SUB)	No	No	Yes	Yes (1.4)	Yes
DVI	DVI-I	DVI-I	DVI-D	No	Yes
Display Port	No	No	No	No	No
EDP	EDP	No	No	No	No
LVDS	24bit Dual + eDP	24bit Dual Channel	No	24bit Dual Channel	24bit Dual Channel
PS/2	No	No	Pin header	Yes (combo)	Yes (combo)
PCI	no	no	no	no	no
PCI express x1	1x	1x	no	no	no
PCI Express x16	no	no	1x	1x	1x
PCI Express Mini	1*Full 1*Half Card	Half Card support	Yes	No	Yes
TPM	No	No	TPM 1.2 optional	No	No
SIM Card holder	No	No	No	No	No
SM Bus	No	No	No	No	No
GPIO	No	No	Yes	Yes	Yes
Power Requirement	19V DC-in Jack	19V DC-in Jack	24pin ATX + 4pin ATX	24pin ATX + 4pin ATX	24pin ATX + 4pin ATX

Daughter Board

JAD12VC	No	No	No	No	No
JAD3RTLANG	No	No	No	No	No
JAD3INLANG	No	No	No	No	No
JAD4COMC1	No	No	No	No	No
JAD4COMCB	No	No	No	No	No
JADE24LV	No	No	No	No	No
JADX24LV4C	No	No	No	No	No
JADPE4S	No	No	No	No	No
JADE4RTLANG	No	No	No	No	No
JADE4INLANG	No	No	No	No	No
JADE4COMCB	No	No	No	No	No
JADE4NVI3M	No	No	No	No	No
JADMPEOX4CA	Yes	No	Yes	NO	Yes
JADMPEISLA	Yes	No	Yes	NO	Yes
JADMPEIDLA	Yes	No	Yes	NO	Yes
JADMPEASU3A	Yes	No	Yes	NO	Yes
JADMPESIMB	Yes	No	Yes	NO	Yes
ETB4G	No	No	No	No	No
ETB4B (BYPASS)	No	No	No	No	No
JADPIE1ILAN4	No	No	No	No	No
JADPI31COM4	No	No	No	No	No

Desktop Intel Socket CPU Solution (Haswell)

Model	JNC9VL-H81	JNF9J-Q87	JNC9S-B85	JNF9Q-Q87	JNF9QU-Q87	JNFS5Z-IH81
Form Factor	Thin Mini-ITX	Mini-ITX	Mini-ITX	Mini-ITX	Mini-ITX	Mini-ITX
Thermal Solution	Active Cooling	Active Cooling	Active Cooling	Active Cooling	Active Cooling	Active Cooling
Chipset	Intel H81	Intel Q87	Intel B85	Intel Q87	Intel Q87	Intel H81
CPU	Intel LGA1150 Haswell CPU	Intel LGA1150 Haswell CPU	Intel LGA1150 Haswell CPU	Intel LGA1150 Haswell CPU	Intel LGA1150 Haswell CPU	Intel LGA1150 Haswell CPU
Memory	2*SODIMM DDR3 1600, up to 16GB	2*SODIMM DDR3 1600, up to 16GB	2*SODIMM DDR3 1600, up to 16GB	2*SODIMM DDR3 1600, up to 16GB	2*SODIMM DDR3 1600, up to 16GB	1*SODIMM DDR3 1600, up to 8GB
SATA	1x SATA 3 (6GB/s) 1x SATA 2 (3GB/s)	5 SATA 3 (6GB/s)	1x SATA 3 (6GB/s) 1x SATA 2 (3GB/s)	4x SATA 3 (6GB/s)	4x SATA 3 (6GB/s)	2x SATA 3 (6GB/s)
m.2	No	No	No	No	No	No
m-SATA	Yes	Yes (Shared MINI PCIe)	Yes (Shared MINI PCIe)	Yes (Shared MINI PCIe)	Yes (Shared MINI PCIe)	Yes (Shared MINI PCIe)
Integrated Graphics	Integrated by Intel CPU	Integrated by Intel CPU	Integrated by Intel CPU	Integrated by Intel CPU	Integrated by Intel CPU	Integrated by Intel CPU
Audio	Realtek ALC662 W/3W AMP	Realtek ALC662	Realtek ALC662	Realtek ALC662	Realtek ALC662	Realtek ALC662
LAN	Intel I217LM Gigabit	Dual Intel Gigabit (i217LM, i211AT)	INTEL Gbe LAN (i217LM)	Dual Intel Gigabit (i217LM, i211)	Dual Intel Gigabit (i217LM, i211)	Dual Realtek Gbe
JetWay 100Pin	No	No	No	No	No	No
USB	2 Ext. USB3.0 2 Ext. USB2.0 2 Int. for 4 USB2.0	2 Ext USB3.0 4 Ext USB2.0 1 Int for 2 USB3.0 2 Int for 4 USB2.0	2 Ext USB3.0 2Ext USB2.0 2 Int for 4 USB2.0	4 Ext USB3.0 1 Int for 2 USB3.0 2 Int for 4 USB2.0	4 Ext USB3.0 1 Int for 2 USB3.0 2 Int for 4 USB2.0	4 Ext USB3.0 2 Ext USB2.0 2 Int for 4 USB2.0
RS232	No	2 Ext. RS232 1 Int. RS232 1 Int. RS485	3 External RS232 2 Internal RS232 1 Internal RS485	1 Ext. RS232/485 2 Int. RS232 2 Int. RS232	1 Ext. RS232/485 1 Ext RS232 2 Int. RS232	1 Ext RS232/485 1 Int RS232/485 10 Int RS232
RJ11 (COM)	No	No	No	No	No	No
Parallel	No	No	No	No	No	No
HDMI	Yes (1.4a)	Yes (1.4a)	No	Yes	Yes	Yes (Shared MINI F
VGA (D-SUB)	No	Yes	3*VGA	No	Yes	2x
DVI	DVI-I	Yes (DVI-D)	No	DVI-I	DVI	No
Display Port	No	No	No	No	No	No
EDP	No	No	No	No	No	No
LVDS	24bit Dual Channel	24bit Dual Channel	24bit Dual Channel	24bit Dual Channel	No	No
PS/2	Internal	Internal	Internal	Internal	Internal	No
PCI	no	no	no	no	no	no
PCI express x1	1x	no	no	PCI Express x4	PCI Express x4	no
PCI Express x16	no	1x	1x	no	no	1x
PCI Express Mini	Yes (Half)	Yes (share w/mSATA)	Yes	One Full one Half	One Full one Half	One Full Size One full shared
TPM	No	NO	TPM 1.2 optional	NO	NO	No
SIM Card holder	No	NO	NO	NO	NO	Yes
SM Bus	No	Pin Header	Pin Header	Pin Header	Pin Header	No
GPIO	No	Yes	Yes	Yes	Yes	Yes
Power Requirement	+19V DC-In	24pin ATX + 4pin 12V	24pin ATX + 4pin 12V	+9 ~ 24V DC-in	+9 ~ 24V DC-in	ATX Power

Daughter Board

JAD12VC	No	No	No	No	No	No
JAD3RTLANG	No	No	No	No	No	No
JAD3INLANG	No	No	No	No	No	No
JAD4COMC1	No	No	No	No	No	No
JAD4COMCB	No	No	No	No	No	No
JADE24LV	No	No	No	No	No	No
JADX24LV4C	No	No	No	No	No	No
JADPE4S	No	No	No	No	No	No
JADE4RTLANG	No	No	No	No	No	No
JADE4INLANG	No	No	No	No	No	No
JADE4COMCB	No	No	No	No	No	No
JADE4NVI3M	No	No	No	No	No	No
JADMPEOX4CA	No	Yes	Yes	Yes	Yes	Yes
JADMPEISLA	No	Yes	Yes	Yes	Yes	Yes
JADMPEIDLA	No	Yes	Yes	Yes	Yes	Yes
JADMPEASU3A	No	Yes	Yes	Yes	Yes	Yes
JADMPESIMB	No	Yes	Yes	Yes	Yes	Yes
ETB4G	No	No	No	No	No	No
ETB4B (BYPASS)	No	No	No	No	No	No
JADPIE1ILAN4	No	No	No	No	No	No
JADPI31COM4	No	No	No	No	No	No

Desktop Skylake

Mobile

AMD

Model	JNF594-Q170	JNF693-H110	JNF595-H110	JNF697-Q170	JNF9G-QM77	JNF35-T40E
Form Factor	Mini-ITX	Mini-ITX	Thin Mini-ITX	Mini-ITX	Mini-ITX	3.5"
Thermal Solution	Active Cooling	Active Cooling	Active Cooling	Active Cooling	Active Cooling	Passive Cooling
Chipset	Intel Q170	Intel H110	Intel H110	Intel Q170	Intel QM77	Hudson M1
CPU	Intel LGA1151 Skylake-S CPU	Intel LGA1151 Skylake-S CPU	Intel LGA1151 Skylake-S CPU	Intel LGA1151 Skylake-S CPU	Intel IVY Bridge Mobile Processor	Ontario APU T40E (1GHz, Dual Core, 6.4W TDP)
Memory	2* SODIMM DD4R up to 32GB	2x SODIMM DDR4 up to 32GB	2* SODIMM DDR4 up to 32GB	2x SODIMM DDR4 up to 32GB	SODIMM DDR3, up to 8GB	1 * DDR3 1066 SO-DIMM, up to 2GB
SATA	4x SATA 3 (6GB/s)	2x SATA3 (6GB/s)	2x SATA 3 (6GB/s)	4x SATAII, support RAID 0,1,5,10	2 SATA 3 4 SATA 2	2 SATAIII
m.2	No	M key (2242/2260)	No	No	No	No
m-SATA	Yes	No	Yes	4x SATAIII	Yes (Shared)	Yes
Integrated Graphics	Integrated by Intel CPU	Integrated by Intel CPU	Integrated by Intel CPU	Integrated by Intel CPU	IVY Bridge CPU	DirectX 11 GPU UVD3
Audio	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD W/3W AMP	Realtek ALC662VD	Realtek ALC662	Realtek ALC662
LAN	Dual INTEL LAN (i219LM, i211AT)	Dual Gigabit LAN	INTEL Gbe LAN i219V	Dual Intel Gbe LAN	Dual Intel Gbe	DUAL Gigabit
JetWay 100Pin	No	No	No	No	Yes (2nd Gen)	No
USB	6 Ext. USB3.0 4 Int. USB2.0	4x Ext USB3.0 4x Int. USB2.0	4 Ext. USB3.0 4 Int. USB2.0	4 Ext USB3.0 2 Int USB2.0	2 External USB3.0 2 External USB2.0 2 Internal USB3.0 4 Internal USB2.0	4 External 2 Internal for 4
RS232	1 Ext. RS232/485 1 Ext. RS232 1 Int. RS232 1 Int. RS232/485	1 Ext. RS232/485 3 Ext. RS232 1 Int. RS232/485 1 Int. RS232	1 Int. RS232 1 Int. RS232/485	2 External RS485 4 Internal RS232	1 External RS232 2 Internal RS232 1 Internal RS485	3 Int RS232 1 Int RS485
RJ11 (COM)	No	No	No	No	No	No
Parallel	No	No	No	No	No	No
HDMI	Yes (2.0)	Yes	Yes	Yes	Yes	No
VGA (D-SUB)	No	No	No	No	Yes	No
DVI	Yes (DVI-D)	No	No	No	No	DVI-I
Display Port	Yes (DP 1.2)	Yes	Yes	2x	Yes	No
EDP	No	EDP	No	No	No	No
LVDS	24bit Dual Channel	no	24bit Dual Channel	24bit Dual Channel	Yes (24bit)	Yes (24bit)
PS/2	External	External	No	Pin header	Pin header	No
PCI	no	no	no	No	no	
PCI express x1	no	no	1x	PCI Express x4	no	
PCI Express x16	1x	1x	no	No	1x	
PCI Express Mini	Half Size	Full Size	Full Size	Full Size	1 Full and 1 Half	Yes
TPM	Optional	No	No	Yes	No	No
SIM Card holder	No	Yes	No	Yes	No	No
SM Bus	Pin Header	Yes	No	Yes	No	No
GPIO	Yes	Yes	No	Yes	Yes	Yes
Power Requirement	24pin ATX + 4pin 12V	24pin ATX	+19V DC-In	+9V ~ + 24V DC-in	24pin ATX + 4pin ATX	12V DC-In

Daughter Board

JAD12VC	No	No	No	No	No	No
JAD3RTLANG	No	No	No	No	No	No
JAD3INLANG	No	No	No	No	No	No
JAD4COMC1	No	No	No	No	No	No
JAD4COMCB	No	No	No	No	No	No
JADE24LV	No	No	No	No	No	NO
JADX24LV4C	No	No	No	No	No	No
JADPE4S	No	No	No	No	No	No
JADE4RTLANG	No	No	No	No	Yes	No
JADE4INLANG	No	No	No	No	Yes	No
JADE4COMCB	No	No	No	No	Yes	No
JADE4NVI3M	No	No	No	No	Yes	No
JADMPEOX4CA	Yes	Yes	Yes	Yes	Yes	Yes
JADMPEISLA	Yes	Yes	Yes	Yes	Yes	Yes
JADMPEIDLA	Yes	Yes	Yes	Yes	Yes	Yes
JADMPEASU3A	Yes	Yes	Yes	Yes	Yes	Yes
JADMPESIMB	Yes	Yes	Yes	Yes	Yes	Yes
ETB4G	No	No	No	No	No	No
ETB4B (BYPASS)	No	No	No	No	No	No
JADPIE1ILAN4	No	No	No	No	No	No
JADPI31COM4	No	No	No	No	No	No

3.5" SBC 3.5" SBC

Model	JNF36 Series	JNF3A series	JNF532 series	JNF3E Series	JNF531	JNF631	JNF632 (initial)
Form Factor	3.5"	3.5"	3.5"	3.5"	3.5"	3.5"	3.5"
Thermal Solution	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling
Chipset	Intel NM10						
CPU	ATOM N2600 1.6GHz 3.5W ATOM N2800 1.86GHz 6.5W	SoC BGA Type Intel Bay Taril-M CPU N2930 / N2807	SoC BGA Type Intel Bay Taril-M CPU N2930 / N2807	Intel Haswell-U / Intel Broadwell U processor (SOC BGA Type) (pin to pin)	Intel Braswell SOC	Intel Apollo Lake SOC Processor	Intel SkyLake U Intel KabyLake U SOC Processor
Memory	JNF36-2600: 2GB JNF36-2800: 4GB	1 * DDR3L 1333 SO- DIMM, up to 8GB	1 * DDR3L 1333 SO- DIMM, up to 8GB	2* SODIMM DDR3L up to 16GB	DDR3 2GB/4GB on board	1x DDR3L SODIMM up to 8GB	2x DDR4 SODIMM up to 32GB
SATA	1 SATA2	1 SATA 2.0	1 SATA 2.0	1 SATA 3.0	1 SATA 3.0	1 SATA 3.0	1 SATA 3.0
m.2	No	No	No	No	M key	M Key (2242)	No
m-SATA	-	Yes (Shared)	Yes (Shared)	Yes (Shared)	No	No (support SD Card)	Yes (shared)
Integrated Graphics	Intel	Intel	Intel	Intel GT2	Intel	Intel	Intel
Audio	Realtek ALC662	Realtek ALC662	Realtek ALC662	Realtek ALC662	Realtek ALC662VD	Realtek ALC662VD	Realtek ALC662VD
LAN	Dual Gigabit	Dual Gigabit	Dual Gigabit	Dual LAN (i218LM, i211AT)	Dual INTEL Gbe LAN	Daul INTEL Gbe LAN	Dual INTEL Gbe LAN
JetWay 100Pin	No	No	No	No	No	No	No
USB	4 External 3 Internal	1 Ext USB3.0 3 Ext USB2.0 4 Int USB2.0	1 Ext USB3.0 3 Ext USB2.0 4 Int USB2.0	4 Ext. USB3.0 2 Ext. USB2.0 2 Int. USB2.0	4 Ext USB3.0 2 Int. USB2.0	4 External USB3.0 1 Internal USB2.0	4 Ext USB3.0 2 EXT USB2.0 4 Int. USB2.0
RS232	3 Internal RS232 1 Internal RS485	3 Int. RS232 1 Int. RS232/485	3 Int. RS232 1 Int. RS232/485	3 Int. RS232 1 Int. RS232/485	1 external RS232 4 Internal RS232 1 Int. RS232/422/485	1 ext RS232 (RJ45) 4 Internal RS232 1 Int. RS232/422/485	5 Internal RS232 1 Int. RS232/422/485
RJ11 (COM)	No	No	No	No	No	No	No
Parallel	No	No	No	No	No	No	No
HDMI	no	no	no	2x HDMI (support 4K)	Yes	No	Yes
VGA (D-SUB)	No	No	Yes	No	No	No	No
DVI	DVI-I	DVI-I	DVI-I	No	No	No	No
Display Port	No	No	No	No	Yes	2x	Yes
EDP	No	No	No	No	No	EDP	No
LVDS	1x 24Bit Dual 1x 24Bit Single	1x 24Bit Dual	No	24bit Dual Channel	24bit Dual Channel	No	24bit Dual Channel
PS/2	No	Internal	Internal	Internal	Not Available	Internal	Internal
PCI	No	No	No	No	No	No	No
PCI express x1	No	No	No	No	No	No	No
PCI Express x16	No	No	No	No	No	No	No
PCI Express Mini	Yes	2 (1 share w/mSATA)	2 (1 share w/mSATA)	2 (1 share w/mSATA)	1 Full Size	1 Full Size	1 Full Size (Shared) 1 Half Size
TPM	No	No	No	TPM1.2 option	No	no	TPM1.2 option
SIM Card holder	No	No	No	NO	Not Available	SIM Card holder	Not Available
SM Bus	No	Pin Header	Pin Header	Pin Header	Not Available	Yes	Yes
GPIO	Yes	Yes	Yes	Yes (Shared)	Yes	Yes	Yes
Power Requirement	12V DC In	+9V ~ + 24V DC-in	+9V ~ + 24V DC-in	+ 9V ~ 24V DC-in	+9V~36V Lockable	12V	+9V~24V Lockable

Daughter Board

JAD12VC	No	No	No	No	No	No	No
JAD3RTLANS	No	No	No	No	No	No	No
JAD3INLANG	No	No	No	No	No	No	No
JAD4COMC1	No	No	No	No	No	No	No
JAD4COMCB	No	No	No	No	No	No	No
JADE24LV	NO	NO	NO	No	No	No	No
JADX24LV4C	No	No	No	No	No	No	No
JADPE4S	No	No	No	No	No	No	No
JADE4RTLANS	No	No	No	No	No	No	No
JADE4INLANG	No	No	No	No	No	No	No
JADE4COMCB	No	No	No	No	No	No	No
JADE4NVI3M	No	No	No	No	No	No	No
JADMPEOX4CA	Yes	Yes	Yes	Yes	Yes	Yes	No
JADMPEISLA	Yes	Yes	Yes	Yes	Yes	Yes	No
JADMPEIDLA	Yes	Yes	Yes	Yes	Yes	Yes	No
JADMPEASU3A	Yes	Yes	Yes	Yes	Yes	Yes	No
JADMPESIMB	Yes	No	Yes	Yes	Yes	Yes	No
ETB4G	No	No	No	No	No	No	No
ETB4B (BYPASS)	No	No	No	No	No	No	No
JADPIE1ILAN4	No	No	No	No	No	No	No
JADPI31COM4	No	No	No	No	No	No	No

NUC

Model	JNU91-I1900	JNU93-2930	JNU92	JNU591	JNU691
Form Factor	NUC (10 x 10cm)	NUC (10 x 10cm)	NUC (10 x 10cm)	NUC (10 x 10cm)	NUC (10 x 10cm)
Thermal Solution	Active Cooling	Active Cooling	Active Cooling	Passive Cooling	Passive Cooling
Chipset					
CPU	SoC BGA Type Intel Bay Taril CPU Celeron Desktop J1900	SoC BGA Type Intel Bay Taril CPU Celeron N2930	Intel Core i5-4300U, Intel Celeron 2980U SOC	Intel Braswell SOC BGA	Intel Apollo SOC BGA
Memory	1 * DDR3L 1333 SO-DIMM, up to 8GB	1 * DDR3L 1333 SO-DIMM, up to 8GB	2 x SODIMM DDR3L up to 16GB	2x SODIMM DDR3L, up to 8GB	1x SODIMM DDR3L up to 8GB
SATA	by M-SATA	1 SATA 2.0	1 SATA 3.0	1 SATA3.0	1 SATA 3.0
m.2	No	No	No	No	No
m-SATA	Yes	Yes	Yes	Yes	Yes
Integrated Graphics	Intel	Intel	INTEL	Intel	Intel
Audio	Realtek ALC887GR	Realtek ALC887GR W/3W Amplifier	Realtek ALC662	Realtek ALC662VD	Realtek ALC662VD
LAN	Intel Gigabit LAN	Dual Intel Gigabit LAN	Intel I218 Gbe LAN	Dual INTEL LAN	Dual Gigabit LAN
JetWay 100Pin	No	No	No	No	No
USB	2x USB2.0 1x USB3.0	4x USB2.0 1x USB3.0	2 Internal USB2.0 1 Front USB3.0 2 Back USB3.0	4x Ext. USB3.0 2x Intl. USB2.0	4 External USB3.0 2 Internal USB2.0
RS232	1x Intl RS232 1 x Ext. RS232	1 External	1Int. RS232/RS422/RS485	1 External	1 Ext. RS232
RJ11 (COM)	No	No	No	No	No
Parallel	No	No	No	No	No
HDMI	2x	2x	2x	1x	2x
VGA (D-SUB)	No	No	No	No	1x
DVI	No	No	No	No	No
Display Port	No	No	No	1x	No
EDP	No	No	No	No	No
LVDS	No	No	No	No	No
PS/2	No	No	No	No	No
PCI	No	No	No	No	No
PCI express x1	No	No	No	No	No
PCI Express x16	No	No	No	No	No
PCI Express Mini	Yes (half)	Half Size	Yes (half)	1 Full Size 1 Half Size	Half Size
TPM	No	No	TPM1.2 option	No	No
SIM Card holder	No	No	NO	SIM Card holder	SIM Card holder
SM Bus	No	No	No	I2C available	I2C
GPIO	No	No	No	Yes (half)	Yes
Power Requirement	+9V ~ + 24V DC-in	+9V ~ + 24V DC-in	9V~24V DC-in AT Mode Support	12V DC input	12V DC-in

Daughter Board

JAD12VC	No	No	No	No	No
JAD3RTLANG	No	No	No	No	No
JAD3INLANG	No	No	No	No	No
JAD4COMC1	No	No	No	No	No
JAD4COMCB	No	No	No	No	No
JADE24LV	No	No	No	No	No
JADX24LV4C	No	No	No	No	No
JADPE4S	No	No	No	No	No
JADE4RTLANG	No	No	No	No	No
JADE4INLANG	No	No	No	No	No
JADE4COMCB	No	No	No	No	No
JADE4NVI3M	No	No	No	No	No
JADMPEOX4CA	No	No	No	No	No
JADMPEISLA	No	No	No	No	No
JADMPEIDLA	No	No	No	No	No
JADMPEASU3A	No	No	No	No	No
JADMPESIMB	No	No	No	No	No
ETB4G	No	No	No	No	No
ETB4B (BYPASS)	No	No	No	No	No
JADPIE1ILAN4	No	No	No	No	No
JADPI31COM4	No	No	No	No	No

PICO-ITX

4.5"

Model	JNP93	JNP591	NLBT-IE2930	NLBT-IE2930-4G	JNC55-E2930-2G	JNC59-E3150-4G
Form Factor	PICO-ITX	PICO-ITX	4"	4"	4.5"	UTX
Thermal Solution	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling
Chipset						
CPU	SoC BGA Type Intel Bay Tariil-M CPU N2930	SOC BGA Type Intel Braswell CPU	SoC BGA Type Intel Bay Tariil CPU Celeron N2930	SoC BGA Type Intel Bay Tariil CPU Celeron N2930	SoC BGA Type Intel Bay Tariil CPU Celeron N2930	INTEL Braswell N3150 (SOC BGA)
Memory	DDR3 2GB on board	DDR3 2GB/4GB on board	1 * DDR3L 1333 SO-DIMM, up to 8GB	on Board 4GB DDR3L	on Board 2GB DDR3L	on board DDR3L 4GB
SATA	1 SATA 2.0 (Horizontal)	1 SATA 3.0	1 SATA 2.0	1 SATA 2.0	1 SATA 2.0	1x SATA3 (6GB/s)
m.2	No	M Key (2242)	No	No	No	No
m-SATA	Yes	No	Yes	Yes	Yes	Yes
Integrated Graphics	Intel	Intel	Intel	Intel	Intel	INTEL HD Graphic
Audio	Realtek ALC662	Realtek ALC662VD	Realtek ALC887GR W/3W AMP	Realtek ALC887GR W/3W AMP	Realtek ALC887GR W/3W AMP	Realtek ALC887GR
LAN	Gigabit	INTEL Gigabit LAN	Dual Intel Gigabit LAN	Dual Intel Gigabit LAN	Dual Intel Gigabit LAN	Dual Realtek Gbe
JetWay 100Pin	No	No	No	No	No	No
USB	1 Ext USB3.0 1 Ext USB2.0 6 Int USB2.0	2 External USB3.0 2 Internal USB2.0	1 External USB 3.0 1 External USB2.0 4 Internal USB2.0	1 External USB 3.0 1 External USB2.0 4 Internal USB2.0	1 External USB 3.0 3External USB2.0 2 Internal USB2.0	3x Ext USB 1x Int. USB
RS232	1 Internal RS232 1 Internal RS422/485	1 Internal RS232 1 Internal RS232/RS422/485	1 Ext.RS232 2 Int.RS232/R422/R485 3 Int.RS23	1 Ext.RS232 2 Int.RS232/R422/R485 3 Int.RS23	2 Ext. R422/R485 6 Ext. RS232	2x Int. RS232
RJ11 (COM)	No	No	No	No	No	No
Parallel	No	No	Internal	Internal	No	No
HDMI	Yes	(Option)	Internal	Internal	Yes	2x
VGA (D-SUB)	Yes (option)	No	Yes	Yes	Yes	No
DVI	No	No	No	No	No	No
Display Port	No	Yes	No	No	No	1x
EDP	No	No	No	No	No	No
LVDS	1x 24Bit Dual	1x 24bit Dual Channel	24bit Dual	24bit Dual	Option	No
PS/2	No	Internal	Internal Pin Header	Internal Pin Header	No	No
PCI	No	No	No	No	No	No
PCI express x1	No	No	No	No	No	No
PCI Express x16	No	No	No	No	No	No
PCI Express Mini	1 Half	1 Full size	Half Size	Half Size	Half Size	1 Full size + 1 Half
TPM	No	No	No	No	No	No
SIM Card holder	No	No	SIM Card holder	SIM Card holder	SIM Card holder	SIM Card Holder
SM Bus	No	No	No	No	No	No
GPIO	No	No	Yes	Yes	Yes	Yes
Power Requirement	12V DC-in	12V DC-in	+9V ~ + 24V DC-in	+9V ~ + 24V DC-in	+9V ~ + 24V DC-in	+9V ~ + 24V DC-in

Daughter Board

JAD12VC	No	No	No	No	No	No
JAD3RTLANG	No	No	No	No	No	No
JAD3INLANG	No	No	No	No	No	No
JAD4COMC1	No	No	No	No	No	No
JAD4COMCB	No	No	No	No	No	No
JADE24LV	NO	NO	No	No	NO	No
JADX24LV4C	No	No	No	No	No	No
JADPE4S	No	No	No	No	No	No
JADE4RTLANG	No	No	No	No	No	No
JADE4INLANG	No	No	No	No	No	No
JADE4COMCB	No	No	No	No	No	No
JADE4NVI3M	No	No	No	No	No	No
JADMPFOX4CA	Yes	Yes	No	No	Yes	Yes
JADMPISLA	Yes	Yes	No	No	Yes	Yes
JADMPIDLA	Yes	Yes	No	No	Yes	Yes
JADMPASU3A	Yes	Yes	No	No	Yes	Yes
JADMPESIMB	Yes	Yes	No	No	Yes	Yes
ETB4G	No	No	No	No	No	No
ETB4B (BYPASS)	No	No	No	No	No	No
JADPIE1ILAN4	No	No	No	No	No	No
JADPI31COM4	No	No	No	No	No	No

Micro ATX Form Factor

Model	JNMF92-H61	JNMF93-Q77	JNMF95-Q87	JNMF94RM-Q87	JNMF95-Q170	JNMF691-H110
Form Factor	Micro ATX	Micro ATX	Micro ATX	Micro ATX	Micro ATX	Micro ATX
Thermal Solution	Active Cooling	Active Cooling	Active Cooling	Active Cooling	Active Cooling	Active cooling
Chipset	Intel H61	Intel Q77	Intel Q87	Intel Q87	Intel Q170	Intel H110
CPU	INTEL Core i7/i5/i3 /Pentium LGA1155	Intel LGA1155 Sandy Bridge/ IVY Bridge	Intel LGA1150 Haswell CPU	Intel LGA1151 Haswell CPU	Intel LGA1151 Skylake CPU	Intel LGA1151 Skylake CPU
Memory	2* DDR3 1333/1066, up to 16GB	4*DDR3 1333 up to 32GB	4*DDR3 1600 up to 32GB	4 * SDRAM DIMM DDR3 1333/1600, up to 32GB	4x DDR4 DIMM up to 64GB	2x DDR4 DIMM up to 32GB
SATA	4 SATA 2 (3GB/s)	2 SATA 3 (6GB/s) 4 SATA 2 (3GB/s)	5 SATA 3 (6GB/s)	6x SATA 3.0 RAID 0/1/5/10	5x SATA 3.0 RAID 0/1/5/10	3x SATA 3.0
m.2	No	No	No	No	No	Yes
m-SATA	-	Yes	Yes (Shared MINI PCIe)	Yes (shared with SATA port 6)	Yes	No
Integrated Graphics	Integrated by Intel i3/i5/i7 CPU	Integrated by Intel i3/i5/i7 CPU	Integrated by Intel Haswell CPU (GT1/GT2/GT3)	Integrated by Intel CPU	Integrated by Intel CPU	Integrated by INTEL CPU
Audio	Realtek ALC662	Realtek ALC662	Realtek ALC662	Not Available	Realtek ALC662VD	Realtek ALC662VD
LAN	Dual Gigabit	Dual INTEL Gigabit	Dual Intel Gigabit (i217LM, 82574L)	Dual Intel Gigabit (i217LM, i211)	Dual Intel Gbe (i219LM, i211AT)	Dual Gigabit LAN
JetWay 100Pin	No	No	No	No	No	No
USB	6 External 3 Internal	2 Ext USB3.0 4 Ext USB2.0 1 Int for 2 USB3.0 2 Int for 4 USB2.0	2 Ext USB3.0 4 Ext USB2.0 1 Int for 2 USB3.0 2 Int for 4 USB2.0	2 Ext. USB 3.0 4 Ext. USB 2.0 2 Int. USB 3.0 4 Int. USB 2.0	4 Ext. USB3.0 2 Ext. USB2.0 2 Int. USB3.0 2 Int. USB2.0	4 Ext. USB3.0 2 Ext. USB2.0 3 Int. USB2.0
RS232	2 Ext. RS232 7 Int. RS232 1 Int. RS485	2 Ext. RS232 7 Int. RS232 1 Int. RS485	1 Ext. RS232 8 Int. RS232 1 Int. RS485	1 Ext. RS232 1 Int. RS422/485	2 Ext RS232 4 Int. RS232	2 Ext RS232/485 8 Int. RS232
RJ11 (COM)	No	No	No	No	No	No
Parallel	1 Internal	1 Internal	No	No	No	No
HDMI	Yes (1.4a)	Yes (1.4a)	Yes (1.4a)	Yes (1 Ext.)	No	Yes
VGA (D-SUB)	Yes	Yes	Yes	1 Ext. and 1 Int.	No	Yes
DVI	Yes	Yes	Yes	No	Yes	Yes
Display Port	No	No	Yes	No	2x	No
EDP	No	No	No	No	No	No
LVDS	No	No	No	No	no	No
PS/2	Yes	Yes	Internal	Yes	Yes	Internal
PCI	2x	1x	2x	No	1x	2x
PCI express x1	1x	1x +1x PCIE x4	PCI Express x4	1x +1x PCIE x4	2x PCIE x4	1x
PCI Express x16	1x	1x	1x	1x	1x	1x
PCI Express Mini	Yes	Yes	Yes	1(full size)	1 (Full size)	1 (Full size)
TPM	TPM1.2 option	TPM1.2 option	TPM1.2 option	TPM1.2 option	TPM1.2 option	TPM2.0 Option
SIM Card holder	NO	NO	NO	NO	No	Yes
SM Bus	No	No	Pin Header	Pin Header	Pin Header	Pin header
GPIO	Yes	Yes	Yes	Yes	yes	Yes
Power Requirement	24pin ATX + 8pin 12V	24pin ATX + 8pin 12V	24pin ATX + 8pin 12V	ATX24P + 12V 8Pin	ATX24P + 12V 8Pin	ATX24P + 12V 8Pin

Daughter Board

JAD12VC	No	No	No	No	No	No
JAD3RTLANG	No	No	No	No	No	No
JAD3INLANG	No	No	No	No	No	No
JAD4COMC1	No	No	No	No	No	No
JAD4COMCB	No	No	No	No	No	No
JADE24LV	NO	NO	No	No	No	No
JADX24LV4C	No	No	No	No	No	No
JADPE4S	No	No	No	No	No	No
JADE4RTLANG	No	No	No	No	No	No
JADE4INLANG	No	No	No	No	No	No
JADE4COMCB	No	No	No	No	No	No
JADE4NVI3M	No	No	No	No	No	No
JADMPFOX4CA	Yes	Yes	Yes	Yes	Yes	Yes
JADMPISLA	Yes	Yes	Yes	Yes	Yes	Yes
JADMPIDLA	Yes	Yes	Yes	Yes	Yes	Yes
JADMPASU3A	Yes	Yes	Yes	Yes	Yes	Yes
JADMPESIMB	Yes	Yes	Yes	Yes	Yes	Yes
ETB4G	No	No	No	No	No	No
ETB4B (BYPASS)	No	No	No	No	No	No
JADPIE1ILAN4	No	No	No	No	No	No
JADPI31COM4	No	No	No	No	No	No

ATX Form Factor

Model	JNAF92-Q67-LF	JNAF93-Q77-LF	JNLB75	JNAF95-Q87	JNAF591-Q170
Form Factor	ATX	ATX	ATX	ATX	ATX
Thermal Solution	Active Cooling	Active Cooling	Active Cooling	Active Cooling	Active Cooling
Chipset	Intel Q67	Intel Q77	Intel B75	Intel Q87	INTEL Q170
CPU	Intel LGA 1155 Socket Core™ i3, i5, i7 & Pentium Processors	Intel LGA1155 Sandy Bridge/ IVY Bridge	Intel LGA1155 Sandy Bridge/ IVY Bridge	Intel LGA1150 Haswell CPU	INTEL LGA1151 SKYLAKE-S CPU
Memory	4x DDR3 1333	4xDDR3 1333 up to 32GB	2 x DDR3 1333	4x DDR3 1600 up to 32GB	4* DDR4 up to 64GB
SATA	2 SATA3 (6GB/s) 3 SATA2 (3GB/s) 1 MSATA	2 SATA 3 (6GB/s) 4 SATA 2 (3GB/s)	4 SATA 2 (3GB/s)	6 SATA 3 (6GB/s)	4x SATA 3.0 1x SATA Express RAID 0/1/5/10
m.2	No	No	No	No	M.2 Express
m-SATA	-	-	No	Yes (Shared SATA)	No
Integrated Graphics	Integrated by Intel i3/i5 CPU	Integrated by Intel i3/i5 CPU	Integrated by Intel i3/i5 CPU	Integrated by Intel Haswell CPU (GT1/GT2/GT3)	Integrated by Intel CPU
Audio	VIA VT1705 6 CH	Realtek ALC662	Realtek ALC887	Realtek ALC662	Realtek ALC662VD
LAN	Dual Intel Gigabit	Dual Intel Gigabit	Dual Gigabit	Dual Intel Gigabit (i217LM, 82574L)	Dual LAN (i219LM, i211AT)
JetWay 100Pin	No	No	No	No	No
USB	6 External 3 Internal for 6	2 Ext USB3.0 4 Ext USB2.0 1 Int for 2 USB3.0 2 Int for 4 USB2.0	4 int. USB3.0 4 Ext. USB2.0 4 Int. USB2.0	2 Ext USB3.0 4 Ext USB2.0 1 Int for 2 USB3.0 2 Int for 4 USB2.0	6 Ext USB3.0 4 Int. USB2.0
RS232	1 External 8 Internal RS232 1 Int. RS422/485	2 Ext. RS232 7 Int. RS232 1 Int. RS485	2 Ext RS232/485 7 Int. RS232 1 Int. RS232/485	1 Ext. RS232 8 Int. RS232 1 Int. RS485	1 Ext. RS232/485 8 Int. RS232 1 Int. RS232/485
RJ11 (COM)	No	No	No	No	No
Parallel	1 Internal	1 Internal	No	No	No
HDMI	Yes (1.4a)	Yes (1.4a)	No	Yes (1.4a)	Yes (2.0)
VGA (D-SUB)	Yes	Yes	Yes	Yes	No
DVI	Yes	Yes	Yes	Yes	Yes (DVI-D)
Display Port	No	No	No	Yes	Yes (DP 1.2)
EDP	No	No	No	No	No
LVDS	No	No	No	No	No
PS/2	Yes (Combo)	Yes (Combo)	No	Internal	Internal
PCI	4x	4x	5x	4x	No
PCI express x1	1x +1x PCIE x4	1x +1x PCIE x4	1x	1x +1x PCIE x4	3x +1x PCIe x4
PCI Express x16	1x	1x	1x	1x	1x
PCI Express Mini	Yes	Dual Slot	Yes	Yes	Yes (Full Size)
TPM	TPM1.2 option	TPM1.2 option	No	TPM 1.2 optional	TPM Header
SIM Card holder	NO	NO	No	No	No
SM Bus	No	No	No	Pin Header	Pin Header
GPIO	Yes	Yes	Yes	Yes	Yes
Power Requirement	24pin ATX + 8pin 12V	24pin ATX + 8pin 12V	24pin ATX + 8pin 12V	24pin ATX + 8pin 12V	24pin ATX + 8pin 12V

Daughter Board

JAD12VC	No	No	No	No	No
JAD3RTLANG	No	No	No	No	No
JAD3INLANG	No	No	No	No	No
JAD4COMC1	No	No	No	No	No
JAD4COMCB	No	No	No	No	No
JADE24LV	No	No	NO	No	No
JADX24LV4C	No	No	No	No	No
JADPE4S	No	No	No	No	No
JADE4RTLANG	No	No	No	No	No
JADE4INLANG	No	No	No	No	No
JADE4COMCB	No	No	No	No	No
JADE4NVI3M	No	No	No	No	No
JADMPFOX4CA	Yes	Yes	Yes	Yes	Yes
JADMPISLA	Yes	Yes	Yes	Yes	Yes
JADMPIDLA	Yes	Yes	Yes	Yes	Yes
JADMPASU3A	Yes	Yes	Yes	Yes	Yes
JADMPESIMB	Yes	Yes	Yes	Yes	Yes
ETB4G	No	No	No	No	No
ETB4B (BYPASS)	No	No	No	No	No
JADPIE1ILAN4	No	No	No	No	No
JADPI31COM4	No	No	No	No	No

Model	JNC9KDL-2550	JNC9NDL-2550	JNF9B-2550	JNF9C Series	JNF9D-2550	JNF9I-2550	JNF9KC-1047UE
Form Factor	Mini-ITX	Mini-ITX	Mini-ITX	Slim Mini-ITX	Mini-ITX	Mini-ITX	Slim Mini-ITX
Thermal Solution	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Active Cooling
Chipset	Intel NM10	Intel NM10	Intel NM10	Intel NM10	Intel NM10	Intel ICH10R	Intel HM65
CPU	ATOM D2550 1.86GHz, 10W	ATOM D2550 1.86GHz, 10W	ATOM D2550 1.86GHz, 10W	ATOM N2600 1.6GHz 3.5W ATOM N2800 1.86GHz 6.5W	ATOM D2550 1.86GHz, 10W	ATOM D2550 1.86GHz, 10W	Intel Celeron 1047UE (1.40GHz, Dual Core TDP 17W)
Memory	2*DDR3 1066 SO-DIMM, up to 4GB	2*DDR3 1066 SO-DIMM, up to 4GB	SODIMM DDR3 1066, up to 4GB	JNF9C-2600: 2GB JNF9C-2800: 4GB	SODIMM DDR3 1066, up to 4GB	2*DDR3 1066 SO-DIMM, up to 4GB	2x SODIMM DDR3 1333, up to 16GB
SATA	2* SATAII	2* SATAII	2 SATAII 2 SATAIII	1 SATAII 2 SATAIII	2 SATAII 2 SATAIII	5 SATAII	1 SATA 2.0 1 SATA 3.0
m.2	No	No	No	No	No	No	No
m-SATA	-	-	-	-	-	Yes (Shared)	Yes (Shared)
Integrated Graphics	Integrated in D2550	Intel GFX	Intel GFX	Intel 3650 GPU	INTEL	INTEL GFX	Intel GT1
Audio	Realtek ALC662	Realtek ALC662	Realtek ALC662	Realtek ALC662	Realtek ALC662	Realtek ALC662	Realtek ALC662
LAN	Dual Gigabit	Dual Gigabit	Dual Gigabit	Gigabit	Dual Gigabit	INTEL 82574L Gbe	Intel Gigabit
JetWay 100Pin	No	No	No	No	Yes	Yes (2nd Gen)	No
USB	4 External 4 Internal	4 External 3 Internal	4 External 3 Internal	4 Internal 3 External	4 External 4 Internal	4 External 6 Internal	3 Ext USB2.0 4 Int USB2.0
RS232	1 Internal	1 Ext RS232 1 Ext RS485 4 Int. RS232	2 External 3 Internal RS232 1 Int. RS232/485	1 External 2 Internal RS232 1 Int. RS232/485	1 External 1 Int. RS232/422/485	1 External 1 Int. RS232/485	3 Int. RS232 1 Ext. RS485 (COM1/COM4 Powered)
RJ11 (COM)	No	No	No	No	No	No	No
Parallel	1 Internal	No	1 Internal	1 Internal	1 Internal	1 Internal	No
HDMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VGA (D-SUB)	Yes	Yes	2x VGA	Yes	Yes	Yes	Internal
DVI	No	No	No	No	No	No	No
Display Port	No	No	No	No	No	No	No
EDP	No	No	No	No	No	No	No
LVDS	Yes (24 Bit Single CH)	Yes (24bit Single)	1x 24bit Dual 1x 24bit Single	1x 24bit Dual 1x 18bit Single	24bit Single Channel	24bit Dual Channel	LVDS1 - 24bit LVDS2 - 24bit
PS/2	Yes	No	Yes	Yes	Yes	Yes	Yes
PCI	1x	1x	1x	1x	1x	1x	no
PCI express x1	no	no	no	no	no	no	1x
PCI Express x16	no	no	no	no	no	no	no
PCI Express Mini	No	Yes	Yes	Yes	Yes	Yes (Shared)	Yes
TPM	No	No	No	No	No	No	No
SIM Card holder	No	No	No	No	No	No	No
SM Bus	No	No	No	No	No	No	No
GPIO	No	Yes	Yes	Yes	Yes	Yes	Yes
Power Requirement	24 Pin ATX	12V DC-in or 4pin ATX	ATX	12V DC-in	ATX	ATX	+9V ~ + 24V DC-in

Daughter Board

JAD12VC	Yes	No	Yes	Yes	Yes	Yes	No
JAD3RTLANG	No	No	No	No	Yes	NO	No
JAD3INLANG	No	No	No	No	Yes	NO	No
JAD4COMC1	No	No	No	No	Yes	NO	No
JAD4COMCB	No	No	No	No	Yes	NO	No
JADE24LV	No	No	NO	NO	NO	NO	No
JADX24LV4C	No	No	No	No	NO	NO	No
JADPE4S	No	No	No	No	Yes	NO	No
JADE4RTLANG	No	No	No	No	No	Yes	NO
JADE4INLANG	No	No	No	No	No	Yes	No
JADE4COMCB	No	No	No	No	No	Yes	No
JADE4NVI3M	No	No	No	No	No	Yes	No
JADMPFOX4CA	No	Yes	Yes	Yes	Yes	Yes	Yes
JADMPISLA	No	Yes	Yes	Yes	Yes	Yes	Yes
JADMPIDLA	No	Yes	Yes	Yes	Yes	Yes	Yes
JADMPASU3A	No	Yes	Yes	Yes	Yes	Yes	Yes
JADMPESIMB	No	Yes	Yes	Yes	Yes	Yes	Yes
ETB4G	No	No	No	No	No	No	No
ETB4B (BYPASS)	No	No	No	No	No	No	No
JADPIE1ILAN4	No	No	No	No	No	No	No
JADPI31COM4	No	No	No	No	No	No	No

Networking

Expansion with Cable-Free

Model	JNF533D4-1900	JNF9HG-2930	JNF692	JNF592-Q170	JNF541 series	JNF542
Form Factor	3.5"	Slim Mini-ITX	Slim Mini-ITX	Slim Mini-ITX	3.5"	3.5"
Thermal Solution	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling	Passive Cooling
Chipset				Intel Q170		
CPU	SoC BGA Type Intel BayTrail J1900	SoC BGA Type Intel Bay Trail-M CPU N2930	Intel Apollo Lake SOC CPU	Intel LGA1151 Skylake-S CPU	SoC BGA Type Intel Bay Trail-M CPU N2930 / N2807	Intel Haswell-U / Intel Broadwell U processor (SOC BGA Type) (pin to pin)
Memory	DDR3L 4GB Memory on board	2 * DDR3L up to 8GB	1x DDR3L max 8GB	2* SODIMM DDR3L up to 16GB	1 * DDR3L 1333 SO- DIMM, up to 8GB	2* SODIMM DDR3L up to 16GB
SATA	1 SATA2	1 SATAII	1 SATA 3	4x SATA 3 (6GB/s) 1x SATA Express	1 SATA 3.0 (7 + 15PIN)	1 SATA 3.0 (7 + 15PIN)
m.2	No	No	No	No	No	No
m-SATA	Yes (Shared)	Yes (shared)	Yes (shared)	N/A	Yes (Shared)	Yes (Shared)
Integrated Graphics	INTEL GFX	INTEL GFX	Intel GPU	Integrated by Intel CPU	Intel	Intel GT2
Audio	Not Available	Not Available	Not available	Not Available	Realtek ALC662	Realtek ALC662 w/3W Amplifier
LAN	4x INTEL i211AT Gbe	4* INTEL GBE LAN	4x INTEL Gbe LAN	8x INTEL Gbe LAN	Dual Intel Gbe LAN (i211AT)	Dual Intel Gbe LAN (i218LM, i211AT)
JetWay 100Pin	Not Available	No	No	No	No	No
USB	1 Ext. USB2.0 1 Ext. USB3.0 2 Intl USB2.0	1 External 2.0 1 External 3.0 4 Internal 2.0	2 Int. 2.0 2 Ext 3.0	2x Ext. USB3.0 4x Int. USB3.0	1 Ext USB3.0 3 Ext USB2.0	2 Ext. USB3.0 2 Ext. USB2.0 1 Int. USB2.0
RS232	1 Ext RS232 1 Int RS232/485	1 External (RJ45) 1 Internal RS485	1 int. RS232/485 2 Int. RS232	1 Ext. RS232	1 Ext. RS232/485	1 Ext. RS232/485 1 Ext. RS232
RJ11 (COM)	No	No	No	No	No	No
Parallel	No	No	No	No	No	No
HDMI	No	No	Internal	Internal	no	1x (HDMI 1.4a)
VGA (D-SUB)	Internal	Yes (internal)	NO	N/A	Yes	No
DVI	No	No	No	No	No	No
Display Port	No	No	No	No	No	Yes (Shared)
EDP	No	No	No	No	No	No
LVDS	No	No	No	No	Not available	Not available
PS/2	Internal	Internal	Internal	Internal	No	No
PCI	no	no	no	no	No	No
PCI express x1	no	1x (side in)	PCIe (side in)	PCI Ex4 (side in)	2x (side in)	1x + 1x PCIe x4 (side
PCI Express x16	no	no	No	no	no	no
PCI Express Mini	3 (1/3 shared)	1 (Full Size)	1 (full size)	Not Available	2 (1 share w/mSATA)	2 (1 share w/mSATA)
TPM	No	No	No	IC reserved	No	No
SIM Card holder	Yes (Shared)	SIM Card holder	SIM Card holder	SIM Card Holder	No	Yes
SM Bus	Yes	No	Yes	No	No	No
GPIO	Yes	Yes	Yes	Yes (internal)	Yes	Yes (Shared)
Power Requirement	12V DC-in (Lockable)	12V DC-in	12V DC-in	ATX Power	12V DC-in	+ 9V ~ 24V DC-in

Daughter Board

JAD12VC	No	No	No	No	No	No
JAD3RTLANG	No	NO	NO	No	No	No
JAD3INLANG	No	NO	NO	No	No	No
JAD4COMC1	No	NO	NO	No	No	No
JAD4COMCB	No	NO	NO	No	No	No
JADE24LV	No	NO	NO	No	NO	No
JADX24LV4C	No	NO	NO	No	No	No
JADPE4S	No	NO	NO	No	No	No
JADE4RTLANG	No	No	No	No	No	No
JADE4INLANG	No	No	No	No	No	No
JADE4COMCB	No	No	No	No	No	No
JADE4NVI3M	No	No	No	No	No	No
JADMPEOX4CA	Yes	Yes	Yes	Yes	Yes	Yes
JADMPEISLA	Yes	Yes	Yes	Yes	Yes	Yes
JADMPEIDLA	Yes	Yes	Yes	Yes	Yes	Yes
JADMPEASU3A	Yes	Yes	Yes	Yes	Yes	Yes
JADMPESIMB	Yes	Yes	Yes	Yes	Yes	Yes
ETB4G	No	Yes	Yes	Yes	No	No
ETB4B (BYPASS)	No	Yes	Yes	Yes	No	No
JADPIE1ILAN4	No	No	No	No	Yes	Yes
JADPI31COM4	No	No	No	No	Yes	Yes