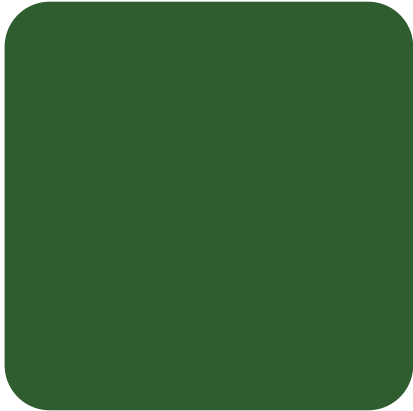


# Applied Computing

Rugged Platforms for Commercial and Industrial Applications



# Multi-Purpose Industrial PCs



Workhorse IPC



D525 Intel Atom



Intel Core i7 / i5

LEC 2 Series		LEC-2010	LEC-2110	LEC-2220
<b>Dimension (WxHxD)</b>		268x64x190mm (10.55"x2.52"x7.48")	268x64x190mm (10.55"x2.52"x7.48")	277x(67/89)x194mm 10.91"x(2.64/3.50)"x7.64"
<b>Processor</b>		Intel Atom N270 1.6GHz	Intel Atom D525 1.8GHz	Intel i7/i5/Celeron
<b>Chipset</b>		Intel 945GSE + ICH7M	Intel ICH8M	HM55
<b>System</b>	Technology	1GB DDR2 on board DDR2 SODIMM x1	DDR3 SODIMM x1	DDR3 SODIMM x2
<b>Memory</b>	Max. Capacity	Up to 2GB	Up to 2GB	Up to 8GB
	IDE	CF socket Type I/II x1	CF socket Type I/II x1	N/A
<b>Storage</b>	SATA	2.5" HDD/SSD drive bay x1	2.5" HDD/SSD drive bay x1	2.5" HDD/SSD drive bay x1; SATA-DOMx1
<b>Ethernet Controller</b>		Realtek RTL8111 x2	Realtek RTL8111 x2	Intel 82574L x2
<b>Graphic Controller</b>		Intel GMA950	Intel GMA3150	Intel® GMA HD Graphics
<b>Audio Controller</b>		Realtek ALC888	Realtek ALC888S	Realtek ALC888S
<b>IO</b>	LAN	GbE RJ45 x2	GbE RJ45 x2	GbE RJ45 x2
	Display	DB15 x1 for VGA DVI-D x1	DB15 x1 for VGA DVI-D x1	DVI-I x1 DVI-D x1
	Video Grabber	No	No	No
	Audio	Phone Jack x2 for Mic-in and Line-out	Phone Jack x2 for Mic-in and Line-out	Phone Jack x2 for Mic-in and Line-out
	Serial I/O	DB9 x2 and 2x10-pin Terminal Block for RS232 x4 and RS232/422/485 x2	DB9 x2 and 2x10-pin Terminal Block for RS232 x4 and RS232/422/485 x2	Totally 6: DB9 x2 for RS232/422/485 x1 and RS232 x1, 10-pin Terminal Block for RS232 x3 and RS232/422/485 x1
	GPS	No	No	No
	Digital I/O	DB9 Female x1 for DI x4 & DO x4 (5V TTL)	DB9 Female x1 for DI x4 & DO x4 (5V TTL)	DB9 Female x1 for DI x4 & DO x4 (5V TTL)
	USB 2.0	Type A x6 Internal x1	Type A x6; Internal x1	Type A x4 Internal x2
	Power Input	2-pin terminal block	2-pin terminal block	2-pin terminal block
	Expansion	Mini-PCIe x1, PCI x1 or PCIe x1	Mini-PCIe x1, PCI x1 or PCIe x1	Mini-PCIe x1 with SIM card reader ; LEC-2220P: PCI x1 or PCIe x1 ; LEC-2220P2: PCI x2
Others	External: power-on button, reset, power-on switch, 3x SMA antenna holes Internal: PS/2 keyboard and mouse, +5Vdc output, LVDS/CCFL (Manufacturing BOM Option)	External: power-on button, reset, power-on switch, 3x SMA antenna holes Internal: PS/2 keyboard and mouse, +5Vdc output, LVDS/CCFL (Manufacturing BOM option)	External: Power-on button, Power-on switch, reset. Internal: PS/2 keyboard and mouse, +5Vdc output	
<b>Power Input</b>		+13~32Vdc, ATX Mode	+9~30Vdc, ATX Mode	+9~30Vdc, ATX Mode
<b>AC Adapter</b>		75W +19V @ 3.95A	75W +19V @ 3.95A	75W +19V @ 3.95A
<b>Hardware Monitor</b>		Winbond W83627UHG integrated watchdog timer 1~255 level	Fintek F81865 integrated watchdog timer 1~255 level	Fintek F81865 integrated watchdog timer 1~255 level
<b>OS Support</b>		Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E	Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E	Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E
<b>Certifications</b>		CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
<b>Compliance</b>		No	No	No
<b>Operating Temperature Range with Industrial Components (Industrial Memory, CF, HDD, SSD....)</b>		-10~55°C/14~131°F	-10~55°C/14~131°F	-20~55°C/-4~131°F
<b>Operating Temperature Range with Commercial Components</b>		-5~45°C/23~113°F	-5~45°C/23~113°F	-5~45°C/23~113°F



**Value Proposition**



**SFF Industrial PC**



**Vision Control**



**Networking IPC**

LEC-2050	LEC-2055	LEC-2126N	LEC-2126
268x43x144mm (10.55"x1.69"x5.67")	198x42x145mm (7.80"x1.65"x5.71")	198x42x145mm (7.80"x1.65"x5.71")	198x42x145mm (7.80"x1.65"x5.71")
Intel Atom N270 1.6GHz Intel 945GSE + ICH7M	Intel Atom N270 1.6GHz Intel 945GSE + ICH7M	Intel Atom D510 1.66GHz Intel ICH8M	Intel Atom D510 1.66GHz Intel ICH8M
512MB DDR2 on board, DDR2 SODIMM x1	DDR2 SODIMM x1	DDR2 SODIMM x1	DDR2 SODIMM x1
Up to 2GB	Up to 2GB	Up to 2GB	Up to 2GB
CF socket Type I/II x1	CF socket Type I/II x1	CF socket Type I/II x1	CF socket Type I/II x1
2.5" HDD/SSD drive bay x1	2.5" HDD/SSD drive bay x1	2.5" SSD drive bay x1	2.5" SSD drive bay x1
Realtek RTL8111 x2	Realtek RTL8111 x2	Intel 82574L x1 Intel 82583V x3	Intel 82574L x1 Intel 82583V x5
Intel GMA950	Intel GMA950	Intel GMA3150	Intel GMA3150
Realtek ALC888	No	No	No
GbE RJ45 x2	GbE RJ45 x2	GbE RJ45 x4	GbE RJ45 x6
DB15 x1 for VGA DVI-D x1	DB15 x1 for VGA	DB15 x1 for VGA	DB15 x1 for VGA
No	No	No	No
Phone-Jack x2 for Mic-in and Line-out	No	No	No
DB9 x4 for RS232/422/485 x2 and RS232 x2	DB9 x3 for RS232/422/485 x2 and RS232 x1	RJ45 x1 for RS232 x1 as console port, Internal pin-header for RS232 x1	RJ45 x1 for RS232 x1 as console port, Internal pin-header for RS232 x1
No	No	No	No
No	Internal Pin-header for GPIO x4	No	No
Type A x4	Type A x2 Internal x2	Type A x2 Internal x2	Type A x2; Internal x2
2-pin terminal block	2-pin terminal block	DC jack with lock	DC jack with lock
Mini-PCIx1	Mini-PCIx1 with SIM card reader	Mini-PCIx1(USB signal only) with SIM card reader	Mini-PCIx1(USB signal only) with SIM card reader
External: power-on button, 2x SMA antenna holes. Internal: PS/2 keyboard and mouse, +5Vdc output, LVDS (Manufacturing BOM option)	External: 2x SMA antenna holes, reset; Internal: PS/2 keyboard and mouse, +5Vdc output	External: Power-on button, 1x SMA antenna hole, reset; Internal: PS/2 keyboard and mouse, +5Vdc output, LCM module connector	External: Power-on button, 1x SMA antenna hole, reset; Internal: PS/2 keyboard and mouse, +5Vdc output, LCM module connector
+13~32Vdc, ATX Mode 60W +24V @ 2.5A	+12~36Vdc, ATX Mode 60W +24V @ 2.5A	+12Vdc +/- 5% , ATX Mode 60W +12V @ 5A	+12Vdc +/- 5% , ATX mode 60W +12V @ 5A
Winbond W83627UHG integrated watchdog timer 1~255 level	Fintek F81865 integrated watchdog timer 1~255 level	Winbond W83627THG integrated watchdog timer 1~255 level	Winbond W83627THG integrated watchdog timer 1~255 level
Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E	Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E	Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E	Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E
CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
No	No	No	No
-10~55°C/14~131°F	-10~55°C/14~131°F	No	No
-5~45°C/23~113°F	-5~45°C/23~113°F	0~40°C / 32~104°F	0~40°C / 32~104°F

# Industrial Communications Appliances

Value Relay



Translation Relay



N455 Intel Atom



Translation Server



LEC 3 Series		LEC-2300	LEC-2310	LEC-2312	LEC-3110
<b>Dimension (WxHxD)</b>		60x165x126mm (2.36"x6.50"x4.96")	69.1x169.5x127mm (2.72"x6.67"x5.00")	69.1x169.5x127mm (2.72"x6.67"x5.00")	486x44.5x301mm (19.3"x1.75"x11.85")
<b>Processor</b>		VIA ULV Eden 1.0GHz	Intel Atom N450 1.66GHz	Intel Atom N455 1.66GHz	Intel Atom D525 1.8GHz
<b>Chipset</b>		VIA VX800	Intel ICH8M	Intel ICH8M	Intel ICH8M
<b>System</b>	Technology	DDR2 SODIMM x1	DDR2 SODIMM x1	DDR3 SODIMM x1	DDR3 SODIMM x1
<b>Memory</b>	Max. Capacity	Up to 2GB	Up to 2GB	Up to 2GB	Up to 2GB
<b>Storage</b>	IDE	External access CF socket Type I/II x1	External access CF socket Type I/II x1	External access CF socket Type I/II x1	CF socket Type I/II x1
	SATA	2.5" SSD drive bay x1	2.5" HDD/SSD drive bay x1	Onboard SSD option from 1~32GB (MLC or SLC), manufacturer options	2.5" HDD/SSD drive bay x1
<b>Ethernet Controller</b>		Realtek RTL8111 x2	Realtek RTL8111 x4	Intel 82574L x2	Intel 82574L x6
<b>Graphic Controller</b>		VIA VX800 integrated	Intel GMA 3150	Intel GMA 3150	Intel GMA 3150
<b>Audio Controller</b>		No	No	No	No
<b>IO</b>	LAN	GbE RJ45 x2	GbE RJ45 x4	Isolated LAN, GbE RJ45 x2	Isolated LAN, GbE RJ45 x6
	Display	DB15 x1 for VGA	DB15 x1 for VGA	Isolated VGA, DB15 x1 for VGA	VGA
	Video Grabber	No	No	No	No
	Audio	No	No	No	No
	Serial I/O	2x10-pin terminal block for RS232/422/485 x4	1x10-pin x1 ; 2x10-pin x1 terminal block for RS232/422/485 x6	Isolated SIO, DB9 x1 for RS232 x1 and 2x10-pin terminal block x1 for RS232/422/485 x4	Isolated SIO, DB9 x2 and 2x10-pin terminal block x2 for RS232/422/485 x10 , Internal pin header for RS232x2
	GPS	No	No	No	No
	Digital I/O	1x10-pin terminal block for DI x4 & DO x4 (5V TTL)	1x10-pin terminal block for DI x4 and DO x4 (5V TTL)	Isolated DIO, 2x5-pin terminal block for DI x4 and DO x4 (5V TTL)	No
	USB 2.0	Type A x4; Internal x2	Type A x2; Internal x2	Type A x2; Internal x2	Type A x2; Internal x1
	Power Input	2-pin terminal block	2-pin terminal block	2-pin terminal block	2-pin terminal block for DC input; AC input with on/off switch x1
	Expansion	No	No	No	PCI-104 for proprietary modules
<b>Others</b>	External: LEDs for 6 serial ports and DIO, reset. Internal: +5Vdc output	External: LEDs for 6 serial ports and DIO, reset. Internal: +5Vdc output	External: LEDs for 5 serial ports and DIO, reset. Internal: keyboard and mouse, +5Vdc output	External: LEDs for serial ports, programmable LED and LANs, reset. Internal: keyboard and mouse, +5Vdc output	
<b>Power Input</b>	+12~36Vdc, AT Mode	+12~36Vdc, AT Mode	+12~36Vdc, AT Mode	AC input for 90~264V (120W PSU inside), DC input for +12~36Vdc, ATX Mode	
<b>AC Adapter</b>	Ordering option	Ordering option	Ordering option	No	
<b>Hardware Monitor</b>	Fintek F81865F integrated watchdog timer 1~255 level	Fintek F81865F integrated watchdog timer 1~255 level	Fintek F81865F integrated watchdog timer 1~255 level	Fintek F81865F integrated watchdog timer 1~255 level	
<b>OS Support</b>	Linux , XPE/WES2009, XP PRO FES WS7E, WS7P, WIN 7 PRO-E	Linux , XPE/WES2009, XP PRO FES WS7E, WS7P, WIN 7 PRO-E	Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E	Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E	
<b>Certifications</b>	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	
<b>Compliance</b>	No	No	GBT13729-2002, IEC-61850-3, IEEE-1613	GBT13729-2002, IEC-61850-3, IEEE-1613	
<b>Operating Temperature Range with Industrial Components (Industrial Memory, CF, HDD, SSD....)</b>		-10~-55°C/14~-131°F	-10~-55°C/14~-131°F	-10~-55°C/14~-131°F	-10~-55°C/14~-131°F
<b>Operating Temperature Range with Commercial Components</b>		-5~45°C/23~113°F	-5~45°C/23~113°F	-5~45°C/23~113°F	-5~45°C/23~113°F

# In-Vehicle IPCs



**In-Vehicle Workhorse**



**Mobile DVR**



**Hybrid DVR**

LEC 5 Series		LEC-5510	LEC-5510V	LEC-5520
<b>Dimension (WxHxD)</b>		268x64x190 mm (10.55"x2.52"x7.48")	268x64x190 mm (10.55"x2.52"x7.48")	301.6x64.2x167mm (11.87"x2.53"x6.57")
<b>Processor</b>		Intel Atom D510 1.66GHz	Intel Atom D510 1.66GHz	Intel Atom N270 1.6GHz
<b>Chipset</b>		Intel ICH8M	Intel ICH8M	Intel 945GSE + ICH7M
<b>System</b>	Technology	1GB DDR2 on board, DDR2 SODIMM x1	1GB DDR2 on board, DDR2 SODIMM x1	1GB DDR2 on board
<b>Memory</b>	Max. Capacity	Up to 2GB	Up to 2GB	Up to 2GB (Manufacture Option)
<b>Storage</b>	IDE	CF socket type I/II x1	CF socket type I/II x1	CF socket type I/II x1
	SATA	2.5" HDD/SSD drive bay x1	2.5" HDD/SSD drive bay x1	2.5" HDD/SSD drive bay x1
<b>Ethernet Controller</b>		Intel 82574L x2	Intel 82574L x2	Realtek RTL8111 x1
<b>Graphic Controller</b>		Intel GMA3150	Intel GMA3150	Intel GMA950
<b>Audio Controller</b>		Realtek ALC888	Realtek ALC888	Realtek ALC888
<b>IO</b>	LAN	GbE RJ45 x2	GbE RJ45 x2	GbE RJ45 x1
	Display	DB15 x1 for VGA	DB15 x1 for VGA	DB15 x1 for VGA
	Video Grabber	No	1 x DB9 with external converter cable for 4 x BNC of video Input	STRETCH S6100, BNC x4 for 4-channel video input
	Audio	DB9 female x1 for Mic-in and Line-out	DB9 Female x1 for Mic-in and Line-out	Phone jack x2 for Mic-in and Line-out
	Serial I/O	2 x DB9 for RS232/422/485 x1 and RS232 x1	2 x DB9 for RS232/422/485 x1 and RS232 x1	2 x DB9 for RS232 x2. Internal pin headers for RS232 x 2
	GPS	Holux GR89 GPS receiver (NEMA-0183)	Holux GR89 GPS receiver (NEMA-0183)	Holux GR89 GPS Receiver (NEMA-0183)
	Digital I/O	1 x female DB9 for DI x4 and DO x4 (5V TTL)	2 x female DB9 for DI x4 and DO x4 (5V TTL)	2 x 14-pin terminal block for power input, RS485 x1 (PTZ control), alarm input x4 and relay output x2
	USB 2.0	Type A x2; Internal x4	Type A x2; Internal x4	Type A x4
	Power Input	3-pin terminal block (+, -, ignition)	3-pin terminal block (+, -, ignition)	2-pin terminal block and DC jack x1
	Expansion	Mini-PClex2 (one with SIM card reader), PCI-104 x1	Mini-PClex2 (one with SIM Card reader)	Mini-PCIe x1 (USB signals) with SIM card reader, Mini-PCI x1
	Others	External: Power-on switch, 3x SMA antenna hole, reset Internal: PS/2 keyboard and mouse, +5Vdc, +12Vdc output, On-board 3-Axis digital accelerometer, 2x intrusion switch for front panel & rear panel	External: Power-on switch, 3x SMA antenna hole, reset Internal: PS/2 keyboard and mouse, +5Vdc, +12Vdc output, On-board 3-Axis digital accelerometer, 2x intrusion switch for front panel & rear panel	External: Power-on button, 3x SMA antenna holes, reset, +12Vdc output. Internal: +5V/+12Vdc output
	<b>Power Input</b>	+6~30VDC input range, ATX mode support ignition delay on/off control	+6~30VDC input range, ATX mode support ignition delay on/off control	+10~36Vdc, ATX mode
	<b>AC Adapter</b>	Ordering Option	Ordering Option	60W +12V @ 5A
<b>Hardware Monitor</b>	Fintek F81865 integrated watchdog timer 1~255 level	Fintek F81865 integrated watchdog timer 1~255 level	Winbond W83627UHG integrated watchdog timer 1~255 level	
<b>OS Support</b>	Linux, XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E	XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E	Linux, XPE/WES2009, XP PRO FES	
<b>Certifications</b>	CE, FCC Class A, e13	CE, FCC Class A, e13	CE, FCC Class A	
<b>Compliance</b>	Climatic: EN-50155 Class T1, Mechanical: EN-61373, Electronic: ISO-7637-2	Climatic: EN-50155 Class T1, Mechanical: EN-61373, Electronic: ISO-7637-2	N/A	
<b>Operating Temperature Range with Industrial Components (Industrial Memory, CF, HDD, SSD....)</b>	-20~55°C/-4~131°F	-20~55°C/-4~131°F	No	
<b>Operating Temperature Range with Commercial Components</b>	-5~45°C/23~113°F	-5~45°C/23~113°F	0~45°C / 32~113°F	

# Video Driven Industrial PCs



Smallest Form Factor



Cost-Effective

LEC 7 Series		LEC-7000	LEC-7020D
<b>Dimension (WxHxD)</b>		190x36x140mm (7.48"x1.42"x5.51")	198x42x145mm (7.80"x1.65"x5.71")
<b>Processor</b>		Intel Atom N270 1.6GHz	Intel Atom N270 1.6GHz
<b>Chipset</b>		Intel 945GSE + ICH7M	Intel 945GSE + ICH7M
<b>System</b>	Technology	512MB DDR2 on board, DDR2 SODIMM x1	DDR2 SODIMM x1
<b>Memory</b>	Max. Capacity	Up to 2GB	Up to 2GB
<b>Storage</b>	IDE	CF socket Type I/II x1	CF socket Type I/II x1
	SATA	2.5" HDD/SSD drive bay x1	2.5" HDD/SSD drive bay x1
<b>Ethernet Controller</b>		Realtek RTL8111 x2	Realtek RTL8111 x2
<b>Graphic Controller</b>		Intel GMA950	Intel GMA950
<b>Audio Controller</b>		Realtek ALC888	Realtek ALC888
<b>IO</b>	LAN	GbE RJ45 x2	GbE RJ45 x2
	Display	DB15 x1 for VGA, DVI-D	DB15 x1 for VGA, DVI-D x1
	Video Grabber	No	No
	Audio	Phone jack x2 for Mic-in and Line-out	Phone jack x2 for Mic-in and Line-out
	Serial I/O	2 x DB9 for RS232/422/485 x2, Internal pin headers for RS232 x2	DB9 x1 for RS232 x1
	GPS	No	No
	Digital I/O	No	1 x female DB9 for DI x4 and DO x4 (5V TTL)
	USB 2.0	Type A x4	Type A x4
	Power Input	2-pin terminal block	DC jack with lock
	Expansion	Mini-PCI x1	Mini-PCIe x1 with SIM card reader
Others	External: Power-on button, 1x SMA antenna hole, Internal: PS/2 keyboard and mouse, +5Vdc output	External: Power-on Button, 1x SMA antenna hole; Internal: +5Vdc output, reset	
<b>Power Input</b>		+12Vdc +/- 5%, ATX mode	+12Vdc +/- 5%, ATX mode
<b>AC Adapter</b>		60W +12V @ 5A	60W +12V @ 5A
<b>Hardware Monitor</b>		Winbond W83627UHG integrated watchdog timer 1~255 level	Winbond W83627UHG integrated watchdog timer 1~255 level
<b>OS Support</b>		Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E	Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E
<b>Certifications</b>		CE, FCC Class A	CE, FCC Class A
<b>Compliance</b>		No	No
<b>Operating Temperature Range with Industrial Components (Industrial Memory, CF, HDD, SSD....)</b>		-10~55°C/14~131°F	-10~55°C/14~131°F
<b>Operating Temperature Range with Commercial Components</b>		-5~45°C/23~113°F	-5~45°C/23~113°F



**D510 Intel Atom**



**D525 Intel Atom**



**Unprecedented Power**

LEC-7100	LEC-7105	LEC-7920
268x44x174mm (10.55"x1.73"x6.85")	268x44x174mm (10.55"x1.73"x6.85")	277x54x194mm (10.91"x2.13"x7.64")
Intel Atom D510 1.66GHz	Intel Atom D525 1.8GHz	Intel i7/i5/Celeron
Intel ICH8M	Intel ICH8M	HM55
DDR2 SODIMM x1	DDR3 SODIMM x1	DDR3 SODIMM x2
Up to 2GB	Up to 4GB	Up to 8GB
CF socket Type I/II x1	CF socket Type I/II x1	N/A
2.5" HDD/SSD drive bay x1	2.5" HDD/SSD drive bay x1; eSATA x1	2.5" HDD/SSD drive bay x1, SATA-DOMx1
Realtek RTL8111 x2	Realtek RTL8111 x2	Intel 82574L x2
Intel GMA3150	Intel GMA3150	Intel® GMA HD Graphics
Realtek ALC888	Realtek ALC888S	Realtek ALC888S
GbE RJ45 x2	GbE RJ45 x2	GbE RJ45 x2
DB15 x1 for VGA; DVI-D (1280x800)	DB15 x1 for VGA, DVI-I (1920x1080 @ 60Hz)	DVI-I x1, DVI-D x1
No	No	No
RCA x2 for right/left Line-out channels, Internal pin header for Line-out, Line-in and Mic-in	RCA x2 for right/left Line-out channels, Internal pin header for Line-out, Line-in and Mic-in	Phone jack x2 for Mic-in and Line-out
DB9 x1 for RS232 x1, Internal pin header RS232 x1	DB9 x2 for RS232 x1, RS232/422/485 x1	DB9 x2 for RS232 x1 and RS232 x1
No	No	No
1 x female DB9 for DI x4 and DO x4 (5V TTL)	2 x 5-pin terminal block for DI x4 and DO x4 (5V TTL)	1 x female DB9 for DI x4 and DO x4 (5V TTL)
Type A x4; Internal x2	Type A x4; Internal x2	Type A x4; Internal x2
DC jack with lock	DC jack with lock	DC jack with lock
Mini-PCIe x2 (one with SIM card reader); Mini-PCI x1	Mini-PCIe x2 (one with SIM card reader); Optional mSATA x1 share with one Mini-PCIe; Optional Mini-PCI x1	Mini-PCIe x1 with SIM card reader
External: Power-on button, Power-on switch, 2x SMA antenna hole, reset. Internal: PS/2 keyboard and mouse, +5Vdc output	External: Power-on button, Power-on switch, 3x SMA antenna hole, reset. Internal: PS/2 keyboard and mouse, +5Vdc output	External: Power-on button, Power-on switch, reset. Internal: PS/2 keyboard and mouse, +5Vdc output
+12Vdc +/- 5%, ATX mode	+12Vdc +/- 5%, ATX mode	+9~30Vdc, ATX mode
60W +12V @ 5A	60W +12V @ 5A	75W +19V @ 3.95A
Winbond W83627UHG integrated watchdog timer 1~255 level	Winbond W83627UHG integrated watchdog timer 1~255 level	Fintek F81865 integrated watchdog timer 1~255 level
Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E	Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E	Linux , XPE/WES2009, XP PRO FES, WS7E, WS7P, WIN 7 PRO-E
CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
No	No	No
-10~55°C/14~131°F	-10~55°C/14~131°F	-10~55°C/-4~131°F
-5~45°C/23~113°F	-5~45°C/23~113°F	-5~45°C/23~113°F