

Industrial Panel PCs & Displays

Our Rugged Industrial Panel PCs and Displays Empower Your Productivity



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We provide diverse panel PCs with advanced display technologies to ensure stable performance in industrial environments. Equipped with our motherboard, this product family possesses high stability and reliability to fulfilling your various requirements in various industry fields.

Industrial Panel PCs & Displays Overview

Fanless Touch Panel PC

KS156-AL



Intel Atom® Processor E3900	P7-8
15.6": KS156-AL	
7": KS070-AL	
Intel Atom® Processor E3800	P7-8
15.6": KS156-BT	
15": KS150-BT	
10.1": KS101-BT	
7": KS070-BT	
Freescal™ i.MX6	P9
10": KS310-IMX6	
7": KS070-FS	
Intel Atom® Processor E3800	P10
15": SPC150-BT	
10.1": VP101-BT	

High-Performance Touch Panel PC

TPC150-SD



7th/6th Gen Intel® Core™ Processor	P12
17": TPC170-SD	
15": TPC150-SD	

Bar Type Panel PC & Display

BPC370-BW



Intel® Pentium®/Celeron® Processor N3000	P14
42": BPC420-BW	
37": BPC370-BW	



Adaptive Display Platform

KS215-KH



7th Gen Intel® Core™ Processor	P16-17
21.5": KS215-KH, 19": KS190-KH	
18.5": KS185-KH, 17": KS170-KH	
15.6": KS156-KH, 15": KS150-KH	
6th Gen Intel® Core™ Processor	P18-19
21.5": KS215-SD, 19": KS190-SD	
18.5": KS185-SD, 17": KS170-SD	
15.6": KS156-SD, 15": KS150-SD	
Intel Atom® Processor E3900	P20-21
21.5": KS215-AL, 19": KS190-AL	
18.5": KS185-AL, 17": KS170-AL	
15.6": KS156-AL, 15": KS150-AL	
12.1": KS121-AL, 10.1": KS101-AL, 7": KS070-AL	

Industrial Tablet PC

RPC101-AL



Intel Atom® Processor E3900	P22
10.1": RPC101-AL	

Industrial Display & Touch Display

IDP215



Bar Type Display	P23
37": BD370	
42": BD420	
Industrial Touch Monitor	P23
21.5": IDP215	
7": IDP070	

Rugged Design

- Industrial-rated components with high MTBF over 100,000 hrs
- Extended operating temperatures
- High ESD protection for I/O ports
- Signal integrity measurement
- Wide range power design
- 100% Japanese-made solid capacitor
- Power hot plug protection for DC-in type SBC and Industrial Motherboards



Software Integration

- Embedded BIOS and OS customization services
- Windows licensing offerings
- Android, Linux distribution (Yocto/Ubuntu/CentOS/Debian)
- Embedded API
(Hardware Monitor, SMBus, I²C, Brightness Control, GPIO, Watchdog)
- Remote management utility

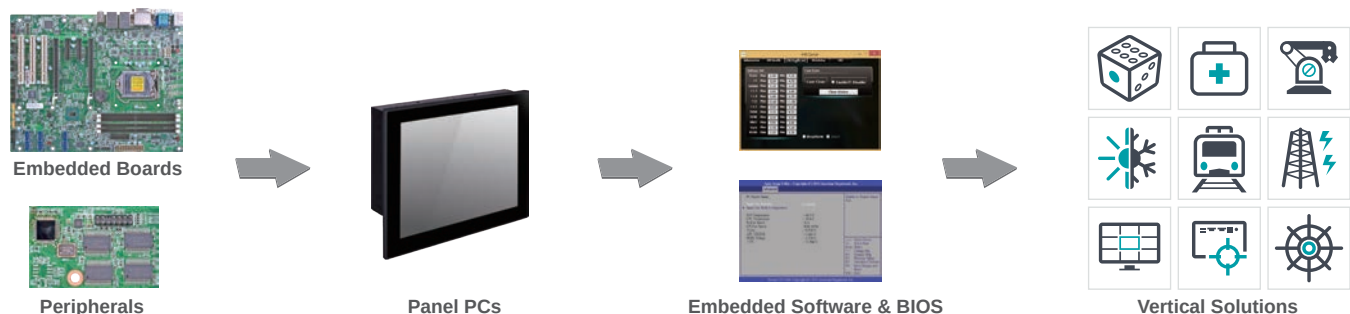


Embedded Total Solution

- Express customization service: 30 days (NRE cost: project based)
- Strict revision control
- Long product life cycle support
- High volume OEM/ODM production capabilities



We Provide a Total Solution Designed for Your Embedded Applications





Brand-New Bar Panel PCs

- 27.6" to 42" medium to big screen selections
- 178/178 degree wide viewing angel for both horizontal and vertical installation
- Available in Intel Atom® platforms
- Fanless, ruggedized, high brightness and low power consumption for 24/7 nonstop operation

x86



ARM



x86 & ARM Platform Support

- Supporting ARM platform (Freescale™ series), and x86 platform (Intel® Core™ and Intel Atom®) to fulfill different computing requirements
- Diverse operating system supports: Android, Windows, and Linux



Adaptive Display Platform

- Instantly building a solution by your demand: multiple-choice panel modules from 7" to 21.5", Intel® Core™ and Intel Atom® box modules
- Lower ownership cost and higher upgraded capability with rugged design



Heavy-Duty



Bar Type



Fanless



Mobile

Complete Panel Computing Solution

- Suited for diverse application scenarios: resistive & capacitive, high ingress protection, wide power input, and temperature resistance
- Product family includes: Fanless Panel PC, Heavy-Duty Panel PC, Bar Panel PC, and Industrial Tablet PC
- Sizes available from 7" to 42"

Fanless Touch Panel PC

Compact Design & Effective Computing



Features

We offer fanless industrial Panel PCs in compact design to satisfy various space-limited applications. Supporting x86 and ARM platform and embedded with rich I/O ports, the series is able to meet your different computing requirements. Certified with IP65 rating and powered by effective computing processors, light industrial Panel PCs are suited for home automation, kiosk, interactive information system, and healthcare computing solution.

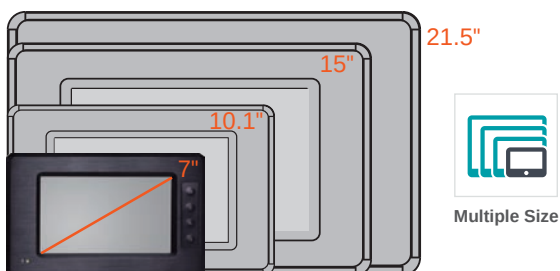
IP65 Front Water Proof



Fanless and Compact Design



Available in Several Sizes



Support Several Platforms and OS





Model Name		KS156-AL	KS156-BT	KS150-BT
Platform		Atom		
System	Processor	Intel Atom® E3900	Intel Atom® Processor E3800	
	Socket	BGA 1296	BGA 1170	
	Max. Speed	1.8~2.5GHz	1.33~1.91GHz	
	TDP	6W/6.5W/9.5W/12W	6W/10W	
	Cache	2M	1M/2M	
	BIOS	Insyde SPI 64Mbit	AMI SPI 64Mbit	
Memory	Technology	Dual Channel DDR3L 1867MHz	Single Channel DDR3L 1066MHz (E3825) Dual Channel DDR3L 1333MHz (E3845)	
	Max. Capacity	16GB	4GB/8GB	
	Socket	2 SODIMM	1 SODIMM (E3825) 2 SODIMM (E3845)	
Display & Touch Screen	Display Type	15.6" TFT Capacitive / 5-wire Resistive Touch	15.6" TFT Capacitive / 5-wire Resistive TFT	15.6" TFT Capacitive / 5-wire Resistive TFT
	Max. Resolution	1366x768	1366x768	1024x768
	Brightness	400 cd/m²	400 cd/m²	250 cd/m²
Graphics	Connector	1 VGA, 1 HDMI	1 DVI-I	
Storage		1x 2.5" SATA 2.0 Drive Bay	1x 2.5" SATA 2.0 Drive Bay 1 mSATA (Shared by Mini PCIe Socket)	
Expansion	Mini PCIe, M.2, PCIe, SIM	1 Full-size Mini PCIe (PCIe/USB), 1 M.2 key (PCIe/SATA/USB)	1 Mini PCIe	
Audio	Audio Codec	Realtek ALC262-VC2-GR	Realtek ALC888	
Ethernet	Controller	2 Intel® I211AT	2 Intel® I210	
LED	Indicators	Power, HDD LED	Power, HDD LED	
I/O	Ethernet (GbE)	2	2	
	Serial	2 RS-232/422/485	3 RS-232/422/485, 1 RS-232	
	USB	4 USB 3.1 Gen1	1 USB 3.1 Gen1, 2 USB 2.0	
	Display	1 VGA, 1 HDMI	1 DVI-I	
	Audio	Line-out	Line-out	
	Buttons	Power Button	Power Switch	
Power		12V DC-in or 15-36V DC-in	12V DC-in	
OS Support		Win10	Win7, Win8, Win10	Win7, Win8, Win10
Mechanism	Construction	Aluminum Front Bezel		
	IP Rating	IP65 Front Panel		
	Mounting	Panel/VESA Mount		
	Dimensions	409.6 x 259.9 x 54 mm (W x H x D)	409.6 x 259.9 x 54 mm (W x H x D)	373 x 297 x 46.1 mm (W x H x D)
	Weight	6.09 kg	6 kg	3.8 kg
Environment	Operating Temp.	0°C~50°C (SSD)	-10°C~60°C (SSD)	
	Relative Humidity	5%~85% RH (non-condensing)		



Model Name		KS101-BT	KS070-BT	KS070-AL
Platform		Atom		
System	Processor	Intel Atom® E3800		Intel Atom® E3900
	Socket	BGA 1170		BGA 1296
	Max. Speed	1.33/1.91GHz		1.8~2.4GHz
	TDP	6W/10W		6W/9.5W
	Cache	1M/2M		2M
	BIOS	AMI SPI 64Mbit		Insyde SPI 128Mbit
Memory	Technology	Single Channel DDR3L 1333MHz		Single Channel DDR3L 1866MHz
	Max. Capacity	2GB/4GB		8GB
	Socket	Memory Down		1 SODIMM
Display & Touch Screen	Display Type	10.1" TFT LCD Panel with Capacitive Touch Screen	7" TFT LCD Panel with Capacitive Touch Screen	7" TFT Capacitive / Resistive Touch Screen
	Max. Resolution	1280x800	800x480	800x480
	Brightness	500 cd/m²		500 cd/m²
Graphics	Connector	1 HDMI		1 VGA, 1 DP++
Storage		1x 2.5" SATA 2.0 Drive Bay 1 micro SD (available upon request) 1 mSATA		1 CFast
Expansion	Mini PCIe, M.2, PCIe, SIM	3 Mini PCIe, 1 SIM		1 Mini PCIe, 1 M.2
Audio	Audio Codec	Realtek ALC886		Realtek ALC262
Ethernet	Controller	2 Intel® I210		2 Intel® I211
LED	Indicators	Power, HDD LED		-
I/O	Ethernet (GbE)	2	2	2
	Serial	4 RS-232/422/485, 1 RS-232	4 RS-232/422/485	2 RS-232/422/485
	USB	1 USB 3.1 Gen1, 3 USB 2.0		2 USB 3.1 Gen1, 2 USB 2.0
	Display	1 HDMI		1 VGA, 1 DP++
	Audio	Line-out, Mic-in		Line-out, Mic-in
	Buttons	Power Button, Reset Button		Power Button
Power		16~24V DC-in		12V DC-in
OS Support		Win7, Win10		Win10
Mechanism	Construction	Aluminum Front Bezel		
	IP Rating	IP65 Front Panel		
	Mounting	Panel/VESA Mount		
	Dimensions	294 x 193 x 48 mm (W x H x D)	208 x 156 x 48 mm (W x H x D)	230 x 150 x 58.3 mm (W x H x D)
	Weight	1.7 kg	2 kg	1.5 kg
Environment	Operating Temp.	0°C~60°C (SSD)	0°C~50°C (SSD)	-20°C~55°C (SSD)
	Relative Humidity	5%~85% RH (non-condensing)		



10.1"



7"

Model Name		KS310-IMX6	KS070-FS
Platform		ARM	
System	Processor	Freescaler™ i.MX6	Freescaler™ i.MX6
	Max. Speed	1.0GHz	1.0GHz
	Cache	512KB	512KB
Memory	Technology	Dual Channel DDR3 400MHz	Dual Channel DDR3 400MHz
	Max. Capacity	2GB	2GB
	Socket	Memory down	
Display & Touch Screen	Display Type	10.1" Projected Capacitive TFT	7" Projected Capacitive TFT
	Max. Resolution	1280x800	1024x600
	Brightness	300 cd/m²	425 cd/m²
Graphics	Connector	1 HDMI	1 HDMI
Storage		1 SD, 4GB eMMC Onboard	1 SD, 4GB eMMC Onboard
Expansion	PCIe, PCI	-	-
	Mini PCIe	1 Mini PCIe, 1 mSATA	1 Mini PCIe, 1 mSATA
	SIM	1 SIM	1 SIM
Audio	Audio	2 Built-in 1W Speaker	2 Built-in 1W Speaker
Ethernet	Controller	Atheros AR8033	Atheros AR8033
LED	Indicators	-	-
I/O	Ethernet (GbE)	1	1
	Serial	1 RS-232/422/485, 1 RS-232	
	USB	2 USB 2.0, 1 USB Client	2 USB 2.0, 1 USB Client
	Display	1 HDMI	1 HDMI
	Audio	1 Line-out/Mic-in	1 Line-out/Mic-in
	DIO	8-bit DIO	8-bit DIO
	Buttons	Power Switch	
	Wi-Fi Antenna	-	-
Power		12~36V DC-in	12~36V DC-in
OS Support		Android 4.3	Android 4.3
Mechanism	Construction	Aluminum Front Bezel, Rear Cover: Sheet Metal	Aluminum Front Bezel, Rear Cover: Sheet Metal
	IP Rating	IP65 Front Panel	
	Mounting	Wall / Panel Mount	Wall / Panel Mount
	Dimensions	293 x 204 x 43.4mm (W x H x D)	235 x 150 x 43.8mm (W x H x D)
	Weight	1.74 kg	1.26 kg
Environment	Operating Temp.	0°C~55°C	0°C~60°C
	Relative Humidity	85% RH at 65°C	85% RH at 65°C



15"



10.1"

Model Name		SPC150-BT	VP101-BT
Platform		Celeron	Atom
System	Processor	Intel Celeron® Processor N2930	Intel Atom® Processor E3800
	Socket	BGA 1170	BGA 1170
	Max. Speed	1.83GHz	1.33~1.91GHz
	TDP	7.5W	10W
	Cache	2M	2M
Memory	Technology	DDR3L 4GB	Single Channel DDR3L 1333MHz
	Max. Capacity	8GB	2GB/4GB
	Socket	Memory down	ECC Memory onboard
Display & Touch Screen	Display Type	15" PCAP/Resistive TFT	10.1" TFT LCD Panel with Capacitive Touch Screen
	Max. Resolution	1024x768	1280x800
	Brightness	420nits	500 cd/m²
Graphics	Connector	-	HDMI, VGA
Storage		1 x 2.5" SATA3 HDD	1x 2.5" SATA 2.0 Drive Bay 1 micro SD (available upon request) Onboard eMMC (available upon request)
Expansion	Mini PCIe	1 x miniPCIe	2 Mini PCIe, 1 mSATA
	SIM	-	1 SIM Socket
Audio	Audio Codec	-	Realtek ALC886
Ethernet	Controller	-	2 Intel® I210
LED	Indicators	-	Power, HDD LED
I/O	Ethernet (GbE)	1 x M12 8-pin for LAN with waterproof cover and chain	2
	Serial	1 x M12 8-pin COM1, RS-232/422/485, default RS-232, with waterproof cover and chain	4 RS-232/422/485, 1 RS-232
	USB	1 x M12 8-pin for USB 2.0 with waterproof cover and chain	1 USB 3.1 Gen1, 3 USB 2.0
	Display	-	1 HDMI, 1 VGA
	Audio	-	Line-out, Mic-in
	DIO	-	1 8-bit DIO
	Buttons	1 x Touch on/off button on the side	Power Button, Reset Button
	Wi-Fi Antenna	-	5 x Antenna Hole
Power		DC 9~36V □ 1 x M12 3-pin for DC power with waterproof cover and chain 1 x Power switch on the side	9~36V DC-in In-Vehicle Power Management Includes Ignition On/Off and System On/Off Delay Time Control
OS Support		WEC 7, Windows Embedded 7, Windows Embedded 8.1, Windows 10 IoT ENT LTSC	Win7, Win10, Linux
Mechanism	Construction	304 Stainless steel chassis	Aluminum Front Bezel
	IP Rating	IP66/IP69K Rated with M12 Connectors	IP65 Front Panel
	Mounting	VESA 75 x 75 mm	Panel/VESA Mount
	Dimensions	399 x 324 x 53 mm	294 x 193 x 48 mm (W x H x D)
	Weight	7.4 kg	1.7 kg
Environment	Operating Temp.	0~50°C	-20°C~60°C
	Relative Humidity	10 to 90% @ 40°C, non- condensing	5 to 85% RH (non-condensing)

High-Performance Touch Panel PC

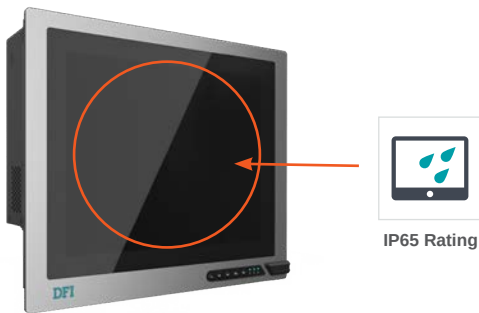
High Performance & Strong Scalability



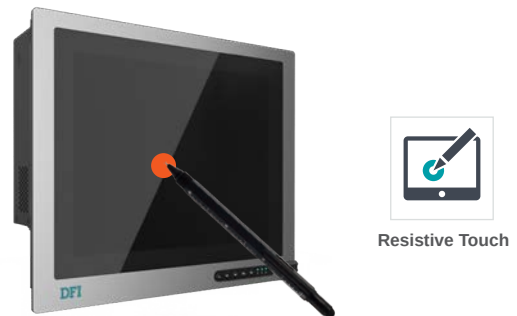
Features

Powered by Intel® Core™ Desktop Processor, our TPC series is designed for high computing requirements. The various I/O interfaces and expandability makes it easier to increase functional add-ons required in your application scenario. Certified with IP65 and wide voltage support, these heavy industrial Panel PCs are suited for demanding applications in factory automation and other harsh environments.

IP65 Front Water Proof



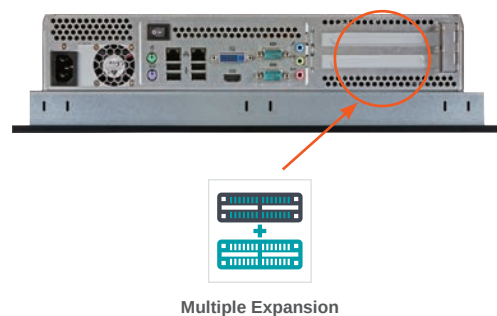
Resistive or Projected Capacitive Touch



Rich I/O : Connectivity



Expandability: 2 PCI/PCIe Slots





17"



15"

Model Name		TPC170-SD	TPC150-SD
Platform		Desktop	Desktop
System	Processor	7th/6th Gen Intel® Core™	7th/6th Gen Intel® Core™
	Socket	LGA 1151	LGA 1151
	Max. Speed	2.4~4.2GHz	2.4~4.2GHz
	TDP	35W/47W/65W	35W/47W/65W
	Cache	2M/3M/4M/6M/8M	2M/3M/4M/6M/8M
	Chipset	Intel® Q170	Intel® H110/Intel® Q170
	BIOS	Insyde SPI 128Mbit	Insyde SPI 128Mbit
Memory	Technology	Dual Channel DDR4 1866/2133MHz	Dual Channel DDR4 1866/2133MHz
	Max. Capacity	32GB	32GB
	Socket	2 SODIMM	2 SODIMM
Display & Touch Screen	Display Type	17" PCAP/Resistive TFT	15" PCAP/Resistive TFT
	Max. Resolution	1280x1024	1024x768
	Brightness	350 cd/m ²	300 cd/m ²
Graphics	Connector	1 VGA, 1 DVI-I, 1 DP++	1 VGA, 1 DVI-I, 1 DP++
Storage		1 or 2x 2.5" SATA 3.0 Drive Bay	1 or 2x 2.5" SATA 3.0 Drive Bay
Expansion	PCIe, PCI	2 PCI or 2 PCIe x8	2 PCI or 2 PCIe x8
	Mini PCIe	1 Mini PCIe	1 Mini PCIe
	SIM	-	-
Audio	Audio Codec	ALC888	ALC888
Ethernet	Controller	1 Intel® I210, 1 Intel® I219	1 Intel® I210, 1 Intel® I219
LED	Indicators	Power, HDD, Alarm LED	Power, HDD, Alarm LED
I/O	Ethernet (GbE)	2	2
	Serial	1 RS-232/422/485, 1 RS-232	1 RS-232/422/485, 1 RS-232
	USB	4 USB 3.1 Gen1, 3 USB 2.0	4 USB 3.1 Gen1, 3 USB 2.0
	Display	1 VGA, 1 DVI-I, 1 DP++	1 VGA, 1 DVI-I, 1 DP++
	Audio	2 Speaker	2 Speaker
	DIO	-	-
	PS/2	1	1
	Buttons	Power Switch, Remote Power Switch	Power Switch, Remote Power Switch
	Wi-Fi Antenna	-	-
Power		ATX Power / 24V DC-in	ATX Power / 24V DC-in
OS Support		Win7, Win8.1, Win10, Linux	Win7, Win8.1, Win10, Linux
Mechanism	Construction	Sheet Metal	Sheet Metal
	IP Rating	IP65 Front Panel	IP65 Front Panel
	Mounting	VESA / Panel Mount	VESA / Panel Mount
	Dimensions	404 x 363 x 98.9 mm (W x H x D)	403 x 330 x 103.5 mm (W x H x D)
	Weight	13kg	10.87kg
Environment	Operating Temp.	0°C~50°C	0°C~50°C
	Relative Humidity	5%~85% RH	5%~85% RH

Bar Type Panel PC & Display

Fanless & Ruggedized Design

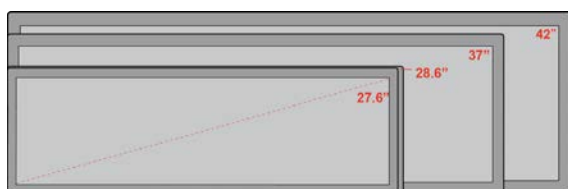


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Features

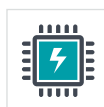
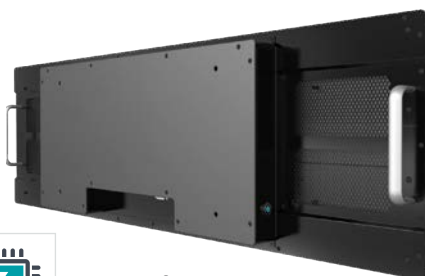
Our bar type panel pc series with a unique long-structure panel design is tailored to the applications in small and narrow spaces. Supporting low-power industrial-grade Intel Atom platforms, 24/7 nonstop reliable operation and high brightness, the series is able to fully meet your indoor and semi-outdoor requirements such as shop floor, public transit, stores, restaurants and so on.

Available in Multiple Sizes



Multiple Size

Platform : Intel Atom®



Intel Atom®

24/7 Stable Operation



24/7 Operation

High Brightness



High Brightness



Model Name		BPC420-BW	BPC370-BW
Platform		Atom	Atom
System	Processor	Intel® Pentium®/Celeron® Processor N3000	Intel® Pentium®/Celeron® Processor N3000
	Socket	BGA 1170	BGA 1170
	Max. Speed	2.56GHz	2.56GHz
	TDP	6W	6W
	Cache	2M	2M
	Chipset	-	-
	BIOS	Insyde SPI 64Mbit	Insyde SPI 64Mbit
Memory	Technology	Single DDR3L 1600MHz	Single DDR3L 1600MHz
	Max. Capacity	8GB (4GB by default)	8GB (4GB by default)
	Socket	1 SODIMM	1 SODIMM
Display	Display Type	42" TFT LCD	37" TFT LCD
	Max. Resolution	1920x480	1920x540
	Brightness	700 cd/m² (1500 cd/m² available upon request)	700 cd/m² (1000 cd/m² available upon request)
Graphics	Connector	1 VGA, 1 DP++	1 VGA, 1 DP++
Storage		1 mSATA	1 mSATA
Expansion	Mini PCIe	1 Mini PCIe, 1 SIM (available upon request)	1 Mini PCIe, 1 SIM (available upon request)
Audio	Audio Codec	Realtek ALC888	Realtek ALC888
Ethernet	Controller	2 Intel® I211	2 Intel® I211
LED	Indicators	Power LED	Power LED
I/O	Ethernet (GbE)	2	2
	Serial	2 RS-232/RS422/RS485	2 RS-232/RS422/RS485
	USB	4 USB 3.1 Gen1	4 USB 3.1 Gen1
	Display	1 VGA, 1 DP++	1 VGA, 1 DP++
	Audio	Speaker 2W+2W (available upon request)	Speaker 2W+2W (available upon request)
	Buttons	Power	Power
Power		AC Input 110V ~ 240V	AC Input 110V ~ 240V
OS Support		Win7, Win8.1, Win10 IoT Enterprise, Linux	Win7, Win8.1, Win10 IoT Enterprise, Linux
Mechanism	Construction	Sheet Metal	Sheet Metal
	IP Rating	IP65 Front Protection Glass (available upon request)	IP65 Front Protection Glass (available upon request)
	Mounting	VESA Mount	VESA Mount
	Dimensions	1085.8 x 311.6 x 78.2 mm (W x H x D)	948.1 x 305.1 x 75.3mm (W x H x D)
	Weight	13 kg	11.15 kg
Environment	Operating Temp.	-5°C~50°C	-5°C~50°C
	Relative Humidity	5%~95% RH (non-condensing)	5%~95% RH (non-condensing)

Adaptive Display Platform

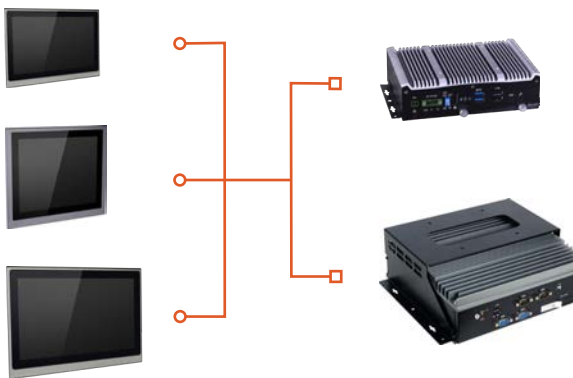
Modular Design & Easy Maintenance



Features

Adaptive Display Platform (ADP) is an advanced configure solution for Panel PC. It is a flexible modular system that provides customers with easy maintenance, installation, and configuration. The concept of this platform is modular design, which means letting users combine their ideal displays and box PCs themselves. The components are interconnected, but user can separate and detach the components for repair and development. It will be much cheaper to upgrade certain modules instead of the whole unit.

Configure by Demand



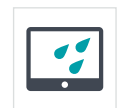
Rugged Design



Wide-voltage



Wide-temp



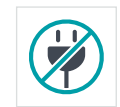
IP65 Rating



Anti-shock/vibration



Fanless

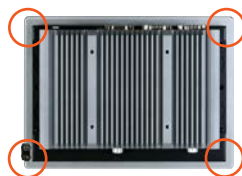


Cableless

Easy Installation & Maintenance



• Step 1



• Step 2

Upgrade Capability

- Brightness
- Resolution
- Panel Size
- Performance
- Function
- Connectivity





Model Name		KS215-KH	KS190-KH	KS185-KH
Platform		Mobile		
System	Processor	7th Gen Intel® Core™ Processor		
	Socket	BGA 1440		
	Max. Speed	2.1~4.2GHz		
	TDP	25W/35W/45W		
	Cache	3M/6M/8M		
	Chipset	Intel® CM238/QM175		
	BIOS	Insyde SPI 32Mbit		
Memory	Technology	Dual Channel DDR4 2400MHz		
	Max. Capacity	32GB		
	Socket	2 SODIMM		
Display & Touch Screen	Display Type	21.5" PCAP/Resistive TFT	19" PCAP/Resistive TFT	18.5" PCAP/Resistive TFT
	Max. Resolution	1920x1080	1280x1024	1366x768
	Brightness	300 cd/m²	350 cd/m²	450 cd/m²
Graphics	Connector	1 VGA, 1 DVI-I, 1 HDMI		
Storage		1x 2.5" SATA 2.0 Drive Bay	1x 2.5" SATA 2.0 Drive Bay	1x 2.5" SATA 2.0 Drive Bay
Expansion	Mini PCIe	2 Mini PCIe, 1 M.2		
	CFast	N/A		
Audio	Audio Codec	Realtek ALC886		
Ethernet	Controller	1 Intel® I211, 1 Intel® I219		
LED	Indicators	Power, HDD, Alarm		
I/O	Ethernet (GbE)	2		
	Serial	4 RS-232/422/485		
	USB	4 USB 3.1 Gen1, 2 USB 2.0		
	Display	1 VGA, 1 DVI-I, 1 HDMI		
	Audio	Line-out		
	DIO	-		
	PS/2	-		
	Buttons	Power, Reset		
	Wi-Fi Antenna	2		
Power		9~36V DC-in		
OS Support		Win10, Linux		
Mechanism	Construction	Aluminum + SGCC		
	IP Rating	IP65 Front Panel		
	Mounting	VESA / Wall / Panel Mount		
	Dimensions	544.2 x 360.6 x 118mm (W x H x D)	467 x 400 x 118mm (W x H x D)	472.06 x 314.15 x 102.8mm (W x H x D)
	Weight	9.4 kg	10 kg	8.1 kg
Environment	Operating Temp.	0°C~45°C	-30°C~50°C	0°C~50°C
	Relative Humidity	90% RH at 50°C		



17"



15.6"



15"

Model Name		KS170-KH	KS156-KH	KS150-KH
Platform		Mobile		
System	Processor	7th Gen Intel® Core™ Processor		
	Socket	BGA 1440		
	Max. Speed	2.1~4.2GHz		
	TDP	25W/35W/45W		
	Cache	3M/6M/8M		
	Chipset	Intel® CM238/QM175		
	BIOS	Insyde SPI 32Mbit		
Memory	Technology	Dual Channel DDR4 2400MHz		
	Max. Capacity	32GB		
	Socket	2 SODIMM		
Display & Touch Screen	Display Type	17" PCAP/Resistive TFT	15.6" PCAP/Resistive TFT	15" PCAP/Resistive TFT
	Max. Resolution	1280x1024	1366x768	1024x768
	Brightness	350 cd/m ²	400 cd/m ²	300 cd/m ²
Graphics	Connector	1 VGA, 1 DVI-I, 1 HDMI		
Storage		1x 2.5" SATA 2.0 Drive Bay	1x 2.5" SATA 2.0 Drive Bay	1x 2.5" SATA 2.0 Drive Bay
Expansion	Mini PCIe	2 Mini PCIe, 1 M.2		
	CFast	N/A		
Audio	Audio Codec	Realtek ALC886		
Ethernet	Controller	1 Intel® I211, 1 Intel® I219		
LED	Indicators	Power, HDD, Alarm		
I/O	Ethernet (GbE)	2		
	Serial	4 RS-232/422/485		
	USB	4 USB 3.1 Gen1, 2 USB 2.0		
	Display	1 VGA, 1 DVI-I, 1 HDMI		
	Audio	Line-out		
	DIO	-		
	PS/2	-		
	Buttons	Power, Reset		
	Wi-Fi Antenna	2		
Power		9~36V DC-in		
OS Support		Win10, Linux		
Mechanism	Construction	Aluminum + SGCC		
	IP Rating	IP65 Front Panel		
	Mounting	VESA / Wall / Panel Mount		
	Dimensions	404 x 363.8 x 102.8 mm (W x H x D)	407.3 x 277.3 x 97.92 mm (W x H x D)	387 x 320 x 118 mm (W x H x D)
	Weight	8.1 kg	TBD	7.7 kg
Environment	Operating Temp.	0°C~45°C	0°C~50°C	0°C~50°C
	Relative Humidity	5%~95% RH (non-condensing)		



Model Name		KS215-SD	KS190-SD	KS185-SD
Platform		Desktop		
System	Processor	6th Gen Intel® Core™ Processor		
	Socket	LGA 1151		
	Max. Speed	2.4~3.4GHz		
	TDP	35W		
	Cache	4M/6M/8M		
	Chipset	Intel® Q170		
	BIOS	Insyde SPI 128Mbit		
Memory	Technology	Dual Channel DDR4 1866/2133MHz		
	Max. Capacity	32GB		
	Socket	2 SODIMM		
Display & Touch Screen	Display Type	21.5" PCAP/Resistive TFT	19" PCAP/Resistive TFT	18.5" PCAP/Resistive TFT
	Max. Resolution	1920x1080	1280x1024	1366x768
	Brightness	300 cd/m²	350 cd/m²	450 cd/m²
Graphics	Connector	1 VGA, 1 DVI, 1 HDMI		
Storage		1 x 2.5" SATA 3.0 Drive Bay		
Expansion	Mini PCIe	2 Mini PCIe		
	CFast	N/A		
Audio	Audio Codec	Realtek ALC888		
Ethernet	Controller	1 Intel® I211, 1 Intel® I219		
LED	Indicators	Power, HDD, Alarm		
I/O	Ethernet (GbE)	2		
	Serial	4 RS-232/422/485		
	USB	4 USB 3.1 Gen1		
	Display	1 DVI-I, 1 HDMI		
	Audio	Mic-in, Line-out		
	DIO	-		
	Buttons	Power, Reset		
	Wi-Fi Antenna	1		
Power		9~36V DC-in		
OS Support		Win7, Win10, Linux		
Mechanism	Construction	Aluminum + SGCC		
	IP Rating	IP65 Front Panel		
	Mounting	VESA / Panel Mount		
	Dimensions	544.2 x 360.6 x 118mm (W x H x D)	467 x 400 x 118mm (W x H x D)	472.06 x 314.15 x 102.8mm (W x H x D)
	Weight	9.4 kg	10 kg	8.1 kg
Environment	Operating Temp.	0°C~45°C	-30°C~50°C	0°C~50°C
	Relative Humidity	90% RH at 50°C		



Model Name		KS170-SD	KS156-SD	KS150-SD
Platform		Desktop		
System	Processor	6th Gen Intel® Core™ Processor		
	Socket	LGA 1151		
	Max. Speed	2.4~3.4GHz		
	TDP	35W		
	Cache	4M/6M/8M		
	Chipset	Intel® Q170		
	BIOS	Insyde SPI 128Mbit		
Memory	Technology	Dual Channel DDR4 1866/2133MHz		
	Max. Capacity	32GB		
	Socket	2 SODIMM		
Display & Touch Screen	Display Type	17" PCAP/Resistive TFT	15.6" PCAP/Resistive TFT	15" PCAP/Resistive TFT
	Max. Resolution	1280x1024	1366x768	1024x768
	Brightness	350 cd/m ²	400 cd/m ²	300 cd/m ²
Graphics	Connector	1 VGA, 1 DVI, 1 HDMI		
Storage		1 x 2.5" SATA 3.0 Drive Bay		
Expansion	Mini PCIe	2 Mini PCIe		
	CFast	N/A		
Audio	Audio Codec	Realtek ALC888		
Ethernet	Controller	1 Intel® I211, 1 Intel® I219		
LED	Indicators	Power, HDD, Alarm		
I/O	Ethernet (GbE)	2		
	Serial	4 RS-232/422/485		
	USB	4 USB 3.1 Gen1		
	Display	1 DVI-I, 1 HDMI		
	Audio	Mic-in, Line-out		
	DIO	-		
	Buttons	Power, Reset		
Power	Wi-Fi Antenna	1		
		9~36V DC-in		
OS Support		Win7, Win10, Linux		
Mechanism	Construction	Aluminum + SGCC		
	IP Rating	IP65 Front Panel		
	Mounting	VESA / Panel Mount		
	Dimensions	404 x 363.8 x 102.8 mm (W x H x D)	407.3 x 277.3 x 98 mm (W x H x D)	387 x 320 x 118 mm (W x H x D)
	Weight	8.1 kg	TBD	7.7 kg
Environment	Operating Temp.	0°C~45°C	0°C~50°C	0°C~50°C
	Relative Humidity	5%~95% RH (non-condensing)		



Model Name		KS215-AL	KS190-AL	KS185-AL	KS170-AL
Platform		Atom			
System	Processor	Intel Atom® E3900			
	Socket	BGA 1296			
	Max. Speed	1.8~2.4GHz			
	TDP	6W/9.5W			
	Cache	2M			
	BIOS	Insyde SPI 128Mbit			
Memory	Technology	Single Channel DDR3L 1866MHz			
	Max. Capacity	8GB			
	Socket	1 SODIMM			
Display & Touch Screen	Display Type	21.5"/19"/18.5"/17" PCAP/Resistive TFT			
	Max. Resolution	1920x1080	1280x1024	1366x768	1280x1024
	Brightness	300 cd/m ²	350 cd/m ²	450 cd/m ²	350 cd/m ²
Graphics	Connector	1 x DP++, 1 x VGA or DVI-D (opt.)			
Storage		1 2.5" SATA 3.0 Drive Bay (accessible) 1 mSATA (share by Mini PCIe)			
Expansion	Mini PCIe	2 Mini PCIe			
	SIM	1 SIM Slot			
Audio	Audio Codec	Realtek ALC262			
Ethernet	Controller	2 Intel® I210AT			
LED	Indicators	Power, HDD, Alarm LED			
I/O	Ethernet (GbE)	2 GbE Support Jumbo Frame, IEEE1588v2, WOL, PXE 802.3 af PoE (PSE), Individual Port 15.4W (opt.)			
	Serial	2 RS-232/422/485 Support 5V/12V Power			
	USB	2 USB 3.1 Gen1, 2 USB 2.0			
	Display	1 DP++, 1 VGA or DVI-D (opt.)			
	Audio	1 Line-out, 1 Mic-in			
	DIO	4 x DI/4 x DO (10-pin terminal block) (Opt.)			
	Buttons	Power Button, Reset Switch			
	Wi-Fi Antenna	4 x Wi-Fi Module Antenna Hole			
Power		24V/9~48V DC-in (Ignition On/Off and System On/Off Delay Time Control)			
OS Support		Win10, Ubuntu			
Mechanism	Construction	Aluminum Front Bezel			
	IP Rating	IP65 Front Panel			
	Mounting	VESA / Panel Mount			
	Dimensions	544.2 x 360.6 x 80.9mm (W x H x D)	467 x 400 x 80.5mm (W x H x D)	472.1 x 314.1 x 80.9mm (W x H x D)	404 x 363.8 x 80.9mm (W x H x D)
	Weight	7 kg	7.6 kg	5.7 kg	5.4 kg
Environment	Operating Temp.	0 to 45°C	-30 to 70°C	0 to 50°C	0 to 45°C
	Relative Humidity	5%~90% RH			5%~95% RH (non-condensing)



Model Name		KS156-AL	KS150-AL	KS121-AL	KS101-AL	KS070-AL
Platform		Atom				
System	Processor	Intel Atom® E3900				
	Socket	BGA 1296				
	Max. Speed	1.8~2.4GHz				
	TDP	6W/9.5W				
	Cache	2M				
	BIOS	Insyde SPI 128Mbit				
Memory	Technology	Single Channel DDR3L 1866MHz				
	Max. Capacity	8GB				
	Socket	1 SODIMM				
Display & Touch Screen	Display Type	15.6"/15"/12.1"/10.1"/7" PCAP/Resistive TFT				
	Max. Resolution	1366x768	1024x768	1024x768	1280x800	800x480
	Brightness	400 cd/m ²	300 cd/m ²	500 cd/m ²	500 cd/m ²	500 cd/m ²
Graphics	Connector	1 x DP++, 1 x VGA or DVI-D (opt.)				
Storage		1 2.5" SATA 3.0 Drive Bay (accessible) 1 mSATA (share by Mini PCIe)				
Expansion	Mini PCIe	2 Mini PCIe				
	SIM	1 SIM Slot				
Audio	Audio Codec	Realtek ALC262				
Ethernet	Controller	2 Intel® I210AT				
LED	Indicators	Power, HDD, Alarm LED				
I/O	Ethernet (GbE)	2 GbE Support Jumbo Frame, IEEE1588v2, WOL, PXE 802.3 af PoE (PSE), Individual Port 15.4W (opt.)				
	Serial	2 RS-232/422/485 Support 5V/12V Power				
	USB	2 USB 3.1 Gen1, 2 USB 2.0				
	Display	1 DP++, 1 VGA or DVI-D (opt.)				
	Audio	1 Line-out, 1 Mic-in				
	DIO	4 x DI/4 x DO (10-pin terminal block) (Opt.)				
	Buttons	Power Button, Reset Switch				
	Wi-Fi Antenna	4 x Wi-Fi Module Antenna Hole				
Power		24V/9~48V DC-in (Ignition On/Off and System On/Off Delay Time Control)				
OS Support		Win10, Ubuntu				
Mechanism	Construction	Aluminum Front Bezel				
	IP Rating	IP65 Front Panel				
	Mounting	VESA / Panel Mount				
	Dimensions	407.3 x 277.3 x 76.1mm (W x H x D)	387 x 320 x 80.5mm (W x H x D)	308 x 265.3 x 77.9mm (W x H x D)	275 x 212.3 x 72.9mm (W x H x D)	224 x 163.55 x 72.9mm (W x H x D)
	Weight	TBD	5.3 kg	TBD	TBD	2.2 kg
Environment	Operating Temp.	0 to 50°C	-20 to 70°C	-20 to 60°C	-10 to 60°C	-20 to 70°C
	Relative Humidity	5%~95% RH (non-condensing)				

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Features

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10.1"

Model Name		RPC101-AL
Platform		Atom
System	Processor	Intel Atom® Processor E3950
	Max. Speed	2GHz
	Cache	2M
Memory	Technology	4GB LPDDR4
	Max. Capacity	16GB
	Socket	Memory down
Display & Touch Screen	Display Type	10.1" Capacitive TFT
	Max. Resolution	1280x800
	Brightness	500 cd/m2
	Sensor	-
Storage		mSATA for storage By M.2 2230
Communication		WIFI, Bluetooth, GPS, WWAN 4G
Camera		Front: 1 x 5M Auto focus, Rear: 1 x 5M Auto focus
Audio	Speaker	2 x Speaker 0.8W
LED	Indicators	1 x LED (Color Red + Green), 1 x LED (color: Blue)
I/O		1 x USB Type C, 1 x Line out, 1 x Sim Card Cover, 1 x Power Button
Power / Battery		100~240V AC 2S1P 7.3V min 3,750mAh / typ 4,100mAh , 4 hours@ film with speaker, 50% brightness
OS Support		Windows 10 IoT Enterprise
Mechanism	IP Rating	Full IP54
	Dimensions	278mm x 200mm x 30mm (W x H x D)
	Weight	2kg
Environment	Operating Temp.	-20~60°C Fixed Mount, 0~40°C Handheld
	Relative Humidity	5%~95% RH (non-condensing) 5%~95%

Industrial Display & Touch Display

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Bar Type Display



Model Name	BD370	BD420
Display Type	37" Bar Type Display	42" Bar Type Display
Max. Resolution	1920x540 (16:4.5)	1920x480 (16:4.5)
Brightness	700 cd/m ²	700 cd/m ²
Contrast Ratio	4000:1	3500:1
Surface	Anti-Glare, 3H	Anti-Glare, 3H
View Angle	178/178°	178/178°
Input Interface	VGA, HDMI, USB	VGA, HDMI, USB
Backlight Life	50,000	50,000
Operating Temp.	-5°C~50°C	0°C~50°C
Dimensions	928.9 x 282.7 x 64.3mm (W x H x D)	1135 x 315 x 63mm (W x H x D)

Touch Monitor

21.5"



7"



Model Name	IDP215	IDP070
Display Type	21.5" PCAP/Resistive TFT	7" PCAP/Resistive TFT
Max. Resolution	1920x1080	800x480
Brightness	300 cd/m ²	500 cd/m ²
Contrast Ratio	5000:1	400:1
View Angle	178/178	130/140
Input Interface	VGA, DVI, HDMI, USB, COM	VGA, DVI, HDMI, USB, COM
Backlight Life	50,000 Hrs	40,000 Hrs
Power	20V USB Type C VDC input / 12/24 VDC input with DC Jack	20V USB Type C VDC input / 12/24 VDC input with DC Jack
Operating Temp.	0°C~60°C	0°C~70°C
Dimensions	TBD	TBD
External Display	1x HDBaseT 100M / 2 x HDBaseT 100M / Wifi Display	1x HDBaseT 100M / 2 x HDBaseT 100M / Wifi Display



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