

Selection Guide

Automotive Box-PC

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**Vehicle Telematics Computer
7252-7C4IP**



**Automotive Box-PC "DeltaTINYCar-PC"
- 6x LAN**



**Automotive Box-PC "DeltaTINYCar-PC"
- 2x LAN**

Cooling System	Fanless	Dual Design - Fanless & Fan	Dual Design - Fanless & Fan
Mounting System	Wall Mount	-	-
CPU	9th Gen. Intel® Core i7-9700TE up to 3.8 GHz, 35W, 8-Core	8th Gen. Intel® Core i7-8665UE CPU, Quad Core, 1.7GHz (max. 4.4GHz)	8th Gen. Intel® Core i7-8665UE CPU, Quad Core, 1.7GHz (max. 4.4GHz)
CPU Socket	-	-	-
Chipset	Intel® C246 platform controller hub	-	-
BIOS	-	-	-
Watchdog Timer	-	x	x
Controller	-	-	-
Basic Equipment	8GB (for two channels)	32GB	32GB
Maximum Equipment	64GB (for two channels)	-	-
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	Dual-Channel 260-pin DDR4 SO-DIMM	DDR4 260-pin SODIMM up to 2.400MHz	DDR4 260-pin SODIMM up to 2.400MHz
Compact Flash	-	-	-
SD	-	-	-
HDD	-	-	-
HD SATA	2x internal 2.5" SSD, 2x mSATA	-	-
HD PATA	-	-	-
PCMCIA	-	-	-
Removeable Storage	-	SSD 512 GB M.2	SSD 512 GB M.2
Graphic Interface	1x VGA/CRT, optional HDMI	Intel® UHD Graphics 620 Graphics Adapter, Dual Displays: DP++/HDMI 1.4 and eDP DisplayPort	Intel® UHD Graphics 620 Graphics Adapter, Dual Displays: DP++/HDMI 1.4 and eDP DisplayPort
Interface COM	2x RS232, 1x RS232/422/485	1x RS232/422/485 (internal)	1x RS232/422/485 (internal)
CAN	1x	-	-
CAN2	-	-	-
Galvanic Isolation	x	-	-
Interface USB	2x USB 2.0, 2x USB 3.0	2x USB 2.0, 2x USB 3.1 USB 3.0	2x USB 2.0, 2x USB 3.1 USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	2x (M12 A-coded) 10/100/1000 BASE-T, optional WLAN, 4x (M12 A-coded) PoE	2x 10/100 BASE-T, 4x 10/100/1000 BASE-T, optional Wi-Fi 6 WLAN	2x 10/100/1000 BASE-T, optional Wi-Fi 6 WLAN
Interface IO	GPIO, 4x Digital Input, 4x Digital Output	8-bit DIO GPIO	8-bit DIO GPIO
Mini PCIe	3x	-	-
Mini PCI	-	-	-
Camera	-	-	-
Video Input	-	-	-
Resolution	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Bluetooth	-	Optional	Optional
eSATA	-	-	-
Sound	-	-	-
Audio	1x Mic-in & 1x Line-out optional	1x Line-Out	1x Line-Out
Headphone	-	-	-
SIM Card	2x micro-SIM slot	-	-
GPS	1x U-blox NEO-M8N GPS module	-	-
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCI	-	-	-
PCIe	-	-	-
PCI/104	-	-	-
Operating System	-	-	-
Operating System Support	WINDOWS 10 / LINUX	WINDOWS 10 IoT Ent. / LINUX	WINDOWS 10 IoT Ent. / LINUX
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 36VDC	9 to 36VDC	9 to 36VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	6,12 Watt (Typical)	6,12 Watt (Typical)
Input Power	-	-	-
Battery	-	RTC Battery: 32 Coin Cell	RTC Battery: 32 Coin Cell
Operating Temperature	-30°C to 60°C	-	-
Extended Operating Temperature	-	-30°C bis +80°C	-30°C to +80°C
Storage Temperature	-40°C to 80°C	-40°C to 85°C	-40°C to 85°C
Relative Humidity	90% (non-condensing)	5% to 90% RH	5% to 90% RH
Protection	IP65 compliance, Vibration & Shock	-	-
Certification	CE, e13 (Vehicle), Class A FCC	-	-
Dimensions	256 x 256,4 x 66,5 mm (W x D x H)	141 x 71 x 97 mm (B x T x H)	141 x 71 x 97 mm (B x T x H)
Weight	4,5 kg	tbd	tbd
Material	-	Aluminium	Aluminium
Typ. Application	Automotive	Automotive	Automotive

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Automotive Box-PC
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**Vehicle Telematics Computer
7252-7C4IP**



**Automotive Box-PC "DeltaTINYCar-PC"
- 6x LAN**



**Automotive Box-PC "DeltaTINYCar-PC"
- 2x LAN**

Artikel-Nr. PKBX5377
VTC 7252-7C4IP w/ Intel Core i7-9700TE up to
3.8GHz, 1x VGA, 3x COM, 2x LAN+4x GbE PoE
(M12), 8GB DDR4

Artikel-Nr. PKBC1221-1
Automotiver-Box-PC "DeltaTINYCar-PC" -
Erweiterter Temperaturbereich, i7-8665UE, 6x
LAN, 4x USB, DP++, 9-36VDC, µC-KI15

Artikel-Nr. PKBC1221-2
Automotiver-Box-PC "DeltaTINYCar-PC" -
Erweiterter Temperaturbereich, i7-8665UE, 2x
LAN, 4x USB, DP++, 9-36VDC, µC-KI15

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Selection Guide Automotive Box-PC



Fanless Box-PC 300-A Series



Advanced Telematics Computer 8110
(Fanless)



Advanced Telematics Computer 8110-F
(Fan Kit)

Cooling System	Fanless	Fanless	Smart fan kit (installed)
Mounting System	Wall Mount	Wall Mount, DIN Rail	Wall Mount, DIN Rail
CPU	Support 12th Gen. Intel® Core™ i7/i5/i3 socket type processor	Intel® Coffee-Lake S/Refresh Xeon® / Core i7 / i5 / i3 (LGA1151); Optional: Intel® Pentium® / Celeron®	Intel® Coffee-Lake S/Refresh Xeon® / Core i7 / i5 / i3 CPU
CPU Socket	-	-	-
Chipset	Intel® Q670EPCH	Intel® chipset C246	Intel® chipset C246
BIOS	-	-	-
Watchdog Timer	-	-	-
Controller	-	-	-
Basic Equipment	-	-	-
Maximum Equipment	32GB	64G (for two channels)	64G (for two channels)
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	1 x DDR5 4800 MHz SO-DIMMsocket	Dual-Channel 260-pin DDR4 SO-DIMM	Dual-Channel 260-pin DDR4 SO-DIMM
Compact Flash	-	-	-
SD	-	-	-
HDD	-	-	-
HD SATA	2 x SATA III 2.5" SSD	3x 2.5" SATA 3.0 SSD / HDD (15 mm height) or 2x 2.5" SATA 3.0 SSD / HDD + 1x u.2 NVMe SSD	3x 2.5" SATA 3.0 SSD / HDD (15 mm height) or 2x 2.5" SATA 3.0 SSD / HDD + 1x u.2 NVMe SSD
HD PATA	-	-	-
PCMCIA	-	-	-
Removeable Storage	x	-	-
Graphic Interface	2x HDMI, 2x DP - Quad independent display DisplayPort	Optional Graphics Card up to NVIDIA® RTX 2080Ti Graphics Adapter, 1x VGA/CRT, 1x HDMI	Optional Graphics Card up to NVIDIA® RTX 2080Ti Graphics Adapter, 1x VGA/CRT, 1x HDMI
Interface COM	6x RS232, 2x RS232/422/485 auto flow control	4x RS232/RS422/RS485	4x RS232/RS422/RS485
CAN	-	1x	1x
CAN2	-	-	-
Galvanic Isolation	-	x	x
Interface USB	4x USB 3.0	1x USB 2.0, 5x USB 3.0	1x USB 2.0, 5x USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	10/100/1000 BASE-T, WLAN	2x RJ45 10/100/1000 BASE-T, 4/8-port independent GbE/ PoE PCIe card, w/ 802.3af/at, RJ45 or M12 (optional) PoE	2x RJ45 10/100/1000 BASE-T, 4/8-port independent GbE/ PoE PCIe card, w/ 802.3af/at, RJ45 or M12 (optional) PoE
Interface IO	2x GPO GPIO	GPIO, 4x Digital Input, 4x Digital Output	GPIO, 4x Digital Input, 4x Digital Output
Mini PCIe	1x mini-PCIe socket	2x	2x
Mini PCI	1 x mini-PCIe socket (PCIe, mSATA, USB 2.0)	-	-
Camera	-	-	-
Video Input	-	-	-
Resolution	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Bluetooth	-	-	-
eSATA	-	-	-
Sound	-	-	-
Audio	-	1x Mic-in, 1x Line-out	1x Mic-in, 1x Line-out
Headphone	-	-	-
SIM Card	- 1 x Nano SIM Cardslot	2x SIM socket	2x SIM socket
GPS	-	1x U-blox NEO-M8N GPS module	1x U-blox NEO-M8N GPS module
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCI	-	-	-
PCIe	1x PCIe x16, 2 x PCIe x4	3x	3x
PCI/104	-	-	-
Operating System	Windows 10 64-bit	-	-
Operating System Support	-	Windows 10 (64-bits), Linux, YOCTO (by request)	Windows 10 (64-bits), Linux, YOCTO (by request)
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	+12/+24V DC	9 to 36VDC	9 to 36VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	10W/ slot max	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	-5°C to +55°C	-30°C to 60°C	-30°C to 60°C
Extended Operating Temperature	-	-	-
Storage Temperature	-20°C to 80°C	-40°C to 85°C	-40°C to 85°C
Relative Humidity	10% to 95% (non-Condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Protection	Shock + Vibration protection	Vibration & Shock	Vibration & Shock
Certification	CE, EN61000-6-2, EN61000-6-4 EN60601 (Medical), Class A FCC	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), Class A FCC
Dimensions	269 x 159 x 136 mm (W x D x H) without wall mount bracket	191,2 x 176 x 350 mm (W x D x H)	207,4 x 176 x 350 mm (W x D x H)
Weight	5,3 kg	8 Kg (w/o graphics / PCIe card)	8,2 Kg (w/o graphics / PCIe card)
Material	Aluminum and metal chassis with fanless design	-	-
Typ. Application	Industrial	Industrial, Automotive, Railway	Industrial, Automotive, Railway



Fanless Box-PC 300-A Series



**Advanced Telematics Computer 8110
(Fanless)**



**Advanced Telematics Computer 8110-F
(Fan Kit)**

Artikel-Nr. PKBX5493
Fanless Box-PC 300-A30 Type1, w/o CPU, Intel®
Q670EPCH, 2x HDMI & 2x DP, 1x PCIe x16,
24VDC

Artikel-Nr. PKBX5493-1
Fanless Box-PC 300-A30 Type2, w/o CPU, intel®
Q670EPCH, 4x USB 3.0,
2x RS232/422/485, 6xRS232

Artikel-Nr. PKBX5910
Advanced Telematics Computer 8110, Barebone
System, 1x VGA, 1x HDMI, 2x PoE, fanless

Artikel-Nr. PKBX5911
ATC 8110, Intel® Xeon® E-2278GE 4.7GHz
8-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB
DDR4, fanless

Artikel-Nr. PKBX5912
ATC 8110, Intel® Core i7-9700E 4.4GHz 8-core,
1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4,
fanless

Artikel-Nr. PKBX5913
ATC 8110, Intel® Core i7-9700TE 3.8GHz 8-core,
1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4,
fanless

Artikel-Nr. PKBX5914
ATC 8110, Intel® Core i7-8700T 4.0GHz 6-core,
1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4,
fanless

Artikel-Nr. PKBX5910-1
Advanced Telematics Computer 8110-F, Barebone
System, 1x VGA, 1x HDMI, 2x PoE, fan kit

Artikel-Nr. PKBX5911-1
ATC 8110-F, Intel® Xeon® E-2278GE 4.7GHz
8-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB
DDR4, fan kit

Artikel-Nr. PKBX5912-1
ATC 8110-F, Intel® Core i7-9700E 4.4GHz 8-core,
1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fan
kit

Artikel-Nr. PKBX5913-1
ATC 8110-F, Intel® Core i7-9700TE 3.8GHz
8-core, 1x VGA, 1x HDMI, 2x PoE, up to 64GB
DDR4, fan kit

Artikel-Nr. PKBX5914-1
ATC 8110-F, Intel® Core i7-8700T 4.0GHz 6-core,
1x VGA, 1x HDMI, 2x PoE, up to 64GB DDR4, fan
kit

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Selection Guide Automotive Box-PC



Vehicle Telematics Computer 7270

Vehicle Telematics Computer 7260-xC4

Cooling System		Fanless	Fanless
Mounting System	-	Wall Mount	Wall Mount
CPU		12/13th Gen Intel® Core™	Intel® Core™ 11th Gen. Tiger Lake UP3,Core i5-1145GRE,Core i7-1185GRE
CPU Socket			-
Chipset		Intel® R680E Chipset	8 MB Intel® Smart Cache (PKBX5378), 12 MB Intel® Smart Cache(PKBX5378-1)
BIOS		-	-
Watchdog Timer		-	-
Controller		Intel® I226-IT	-
Basic Equipment		8GB	4GBx4GB in default
Maximum Equipment		64GB	64GB in max.
DRAM		-	-
SDRAM		-	-
DIMM / MemorySocket		2 x SO-DIMM, DDR5-4800MHz	2 x SO-DIMM, DDR4-3200MHz
Compact Flash		-	-
SD		2 x 2.5" SSD (15mm height, removable)	-
HDD		-	-
HD SATA		-	1 x 2.5" SSD, 1 x mSATA and 1 x NVMe SSD for data integrity
HD PATA		-	-
PCMCIA		-	-
Removeable Storage		-	-
Graphic Interface	-	Intel® UHD graphics 770, 1.55GHz, Max resolution: 4.096 x 2.160@60Hz(HDMI), DirectX:12, OpenGL: 4.5 Graphics Adapter, 1 x VGA, up to 1920x1200@60Hz VGA/CRT, 1 x HDMI 2.0a/b, up to 3840x2160@60Hz HDMI, 1 x DP, 4096x2304@60Hz DisplayPort	Intel® Iris® Xe graphics, 1.3GHz Graphics Adapter, 1x VGA, up to 2.560 x 1.600@60Hz VGA/CRT, 1x 2.0a/b, up to 3.840 x 2.160@60Hz HDMI, 1x DP, 4.096 x 2.304@60Hz DisplayPort
Interface COM		1x 2 x RS232 (DB9), 1x 2 x RS232/422/485 (DB9)	1x 2 x full RS232 reserved for option (wafer connector), 2x RS232/422/485
CAN		2 x CAN FD, compatible with CAN2.0A/2.0B	1 x CAN 2.0A/ 2.0B
CAN2		-	-
Galvanic Isolation		x	2.5KV isolated
Interface USB	-	6 x USB 3.2 Type A USB 3.0	1x USB 2.0, 3x USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	-	1 x M.2 3030 Key E socket (PCIe 3.0 x 2 & USB 2.0), Wi-Fi(default), Hailocard(option) 10/100/1000 BASE-T, PKBX5750: 2 x 2.5GbE PoE (RJ45), 1 x GbE (RJ45) PKBX5751: 4 x 2.5GbE PoE (RJ45), 1 x GbE (RJ45) PKBX5752: 8 x 2.5GbE PoE (RJ45), 1 x GbE (RJ45) 2.5G - 5G BASE-T, Up to 4 WWAN/WLAN combinations for mobile router applications WLAN, 2 x 2.5" SSD, 1 x NVMe ultra-speed SSD for data integrity PoE	5x 10/100/1000 BASE-T, 4 x PR-SMA for WLAN WLAN, 4x PoE
Interface IO	-	u-blox NEO-M9N GNSS module for GPS/Gloness/QZSS/Galileo/Beidou GPIO 1 x mPCIe slot (PCIe 3.0, SATA 3.0, USB 2.0	GPIO, 4x Digital Input, 4x Digital Output 4x
Mini PCIe		-	-
Mini PCI		-	-
Camera		-	-
Video Input		-	-
Resolution		-	-
Encoding		-	-
Decoding/Playback		-	-
Codec		-	-
Bluetooth		-	-
eSATA		-	-
Sound		-	-
Audio		Line-out, unbalance stereo, left & right channel, Line-in & MIC-in, stereo,DC-OUT: 12VDC@2A	Line-out, unbalance stereo, left & right channel,MIC-in, stereo,Line-in reserved (wafer connector)
Headphone		-	-
SIM Card		4 x Nano SIM slots	2 x SIM slots (SIM1-1, SIM2-1)
GPS		1x u-blox NEO-M9N GNSS module, Optional DR (Dead Reckoning) function, NEO-M9V/M8L	1x U-blox NEO-M8N GPS module,Optional DR (Dead Reckoning) function, NEO-M8U/M8L
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCI		-	-
PCIe		2x PCIe 3.0	-
PCI/104		-	-
Operating System		Windows 10 64-bit/Windows 10 IOT 64-bit, Windows 11, Linux (Ubuntu 18.04)	Windows 10 64-bit/Windows 10 IOT 64-bit, Windows 11, Linux (Ubuntu 18.04)
Operating System Support		-	-
Input Voltage Nominal		-	-
Input Voltage Min/Max		9 to 36VDC	9 to 36VDC
Output Voltage Nominal		-	-
Output Voltage Min/Max		-	-
Input Current		-	-
Input Power		-	-

Battery		-	-
Operating Temperature		-35°C~70°C	-30°C~60°C (15W TDP & PoE)
Extended Operating Temperature		-	-
Storage Temperature		-40°C~85°C	-40°C to 85°C
Relative Humidity		10%~95% (non-condensing)	10%~95% (non-condensing)
Protection		MIL-STD-810H Vibration & Shock	Vibration & Shock
Certification	-	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), MIL-STD-810G, Class A FCC
Dimensions		260 x 210 x 81 mm (W x D x H) 293mm x 210mm x 90mm (w/ mount bracket)	210 x 173 x 75 mm (W x D x H)
Weight		5.7kg, 6.8kg (w/ fan kit)	3,5 kg
Material		-	rugged Casing
Typ. Application	-	Automotive	Automotive

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Selection Guide Automotive Box-PC



Vehicle Telematics Computer 7270

Vehicle Telematics Computer 7260-xC4

	Artikel-Nr.	Artikel-Nr. PKBX5750 VTC 7270 12/13th Gen Intel Core, R680E, DDR5, 2x2.5GbE, 6xUSB3.2, 2xCAN, 2.5SSD, NVMe Artikel-Nr. PKBX5751 VTC 7270-C4, 12/13th Gen Intel Core, R680E, DDR5, 4x2.5GbE, 6xUSB3.2, 2xCAN, 2.5SSD, NVMe Artikel-Nr. PKBX5752 VTC 7270-C8, 12/13th Gen Intel Core, R680E, DDR5, 8x2.5GbE, 6xUSB3.2, 2xCAN, 2.5SSD, NVMe Artikel-Nr. PMME1110 Hailo-8® Mini PCIe AI Acceleration Module, PCIe Gen 3-1-lane IF., x86, ARM aarch-64, -40°C - 85°C Artikel-Nr. PMME1100 Google®Coral® Mini PCIe Accelerator, PCIe Gen2 interface, Google Edge® TPU ML, -20°C-85°C	Artikel-Nr. PKBX5378 VTC 7260-5C4 Intel11th Gen Tiger Lake UP3 i5, 4xPoE+GbE,USB 2.0,USB3.2, 2xRS232/422/485,SSD ,mSATA Artikel-Nr. PKBX5378-1 VTC 7260-7C4 Intel 11th Gen Tiger Lake UP3 i7, 4xPoE+GbE,USB 2.0,USB3.2, 2xRS232/422/485, SSD, mSATA
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Selection Guide Automotive Box-PC



Vehicle Telematics Computer 7251-GCIoT



Vehicle Telematics Computer 7251-7C4/5C4/3C4 w/PoE



Vehicle Telematics Computer 7251

Cooling System	Fanless	Fanless	Fanless
Mounting System	Wall Mount	Wall Mount	Wall Mount
CPU	Intel® Core i7-8700T (8th Gen.) Coffee Lake processor, 6-Core, 2.4GHz	8th Gen. Intel® Core i7 / i5 / i3 Coffee Lake-S processor with 6-Core / 4-Core	8th Gen. Intel® Core i7 / i5 / i3 Coffee Lake-S processor with 6-Core / 4-Core
CPU Socket	-	-	-
Chipset	Intel® Q370 platform controller hub	Intel® Q370 platform controller hub	Intel® Q370 platform controller hub
BIOS	-	-	-
Watchdog Timer	-	-	-
Controller	-	-	-
Basic Equipment	8GB (for two channels)	8GB (for two channels)	8GB (for two channels)
Maximum Equipment	64GB (for two channels)	64GB (for two channels)	64GB (for two channels)
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	Dual-Channel 260-pin DDR4 SO-DIMM	Dual-Channel 260-pin DDR4 SO-DIMM	Dual-Channel 260-pin DDR4 SO-DIMM
Compact Flash	-	-	-
SD	-	-	-
HDD	-	-	-
HD SATA	2x 2,5" SATA 3.0 external SSD, 2x mSATA 3.0 (BIOS selection)	2x 2,5" SATA 3.0 external SSD, 2x mSATA 3.0 (BIOS selection)	2x 2,5" SATA 3.0 external SSD, 2x mSATA 3.0 (BIOS selection)
HD PATA	-	-	-
PCMCIA	-	-	-
Removeable Storage	-	-	-
Graphic Interface	Google Edge TPU (Coral ML Accelerator Module) Graphics Adapter, 1x VGA/CRT, 1x HDMI	Intel® UHD Graphics 630 Graphics Adapter, 1x VGA/CRT, 1x HDMI	Intel® UHD Graphics 630 Graphics Adapter, 1x VGA/CRT, 1x HDMI
Interface COM	2x RS232, 1x RS232/422/485	2x RS232, 1x RS232/422/485	2x RS232, 1x RS232/422/485
CAN	1x	1x	1x
CAN2	-	-	-
Galvanic Isolation	x	x	x
Interface USB	4x USB 3.0	4x USB 3.0	4x USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	5x 10/100/1000 BASE-T, optional WLAN, 4x PoE	5x 10/100/1000 BASE-T, optional WLAN, 4x PoE	2x 10/100/1000 BASE-T, optional WLAN
Interface IO	GPIO, 4x Digital Input, 4x Digital Output	GPIO, 4x Digital Input, 4x Digital Output	GPIO, 4x Digital Input, 4x Digital Output
Mini PCIe	4x	4x	4x
Mini PCI	-	-	-
Camera	-	-	-
Video Input	-	-	-
Resolution	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Bluetooth	-	-	-
eSATA	-	-	-
Sound	-	-	-
Audio	1x Mic-in, 2x Line-out	1x Mic-in, 2x Line-out	1x Mic-in, 2x Line-out
Headphone	-	-	-
SIM Card	6x SIM card sockets (4x WWAN + 8x SIM, BOM option)	6x SIM card sockets	6x SIM card sockets
GPS	1x U-blox NEO-M8N GPS module	1x U-blox NEO-M8N GPS module	1x U-blox NEO-M8N GPS module
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCI	-	-	-
PCIe	-	-	-
PCI/104	-	-	-
Operating System	-	-	-
Operating System Support	LINUX	WINDOWS 10 / LINUX Ubuntu 16.04/18.04	WINDOWS 10 / LINUX Ubuntu 16.04/18.04
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 36VDC	9 to 36VDC	9 to 36VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	-30°C to 60°C	-30°C to 60°C (with industrial SSD)	-30°C to 70°C (with industrial SSD)
Extended Operating Temperature	-	-	-
Storage Temperature	-40°C to 80°C	-40°C to 80°C	-40°C to 80°C
Relative Humidity	90% (non-condensing)	90%	90%
Protection	Vibration & Shock	Vibration & Shock	Vibration & Shock
Certification	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), Class A FCC
Dimensions	260 x 256 x 83,5 mm (W x D x H)	260 x 256 x 83,5 mm (W x D x H)	260 x 256 x 83,5 mm (W x D x H)
Weight	4,2 kg	4,2 kg	4,2 kg
Material	-	-	-
Typ. Application	Automotive	Automotive	Automotive

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Selection Guide Automotive Box-PC



**Vehicle Telematics Computer
7251-GCIoT**



**Vehicle Telematics Computer
7251-7C4/5C4/3C4 w/PoE**



Vehicle Telematics Computer 7251

Artikel-Nr. PKBX5369
VTC 7251-GCIoT, Google Edge TPU, Intel Core
i7-8700T 2.4GHz, 8GB DDR4, 1x VGA, 1x HDMI

Artikel-Nr. PKBX5367
VTC 7251-7C4, w/ Intel Core i7-8700T, 6-Core
2.4GHz, 1x VGA, 1x HDMI, 3x COM, 4x GbE PoE,
8GB DDR4

Artikel-Nr. PKBX5367-1
VTC 7251-5C4, w/ Intel Core i5-8500T, 6-Core
2.1GHz, 1x VGA, 1x HDMI, 3x COM, 4x GbE PoE,
8GB DDR4

Artikel-Nr. PKBX5367-2
VTC 7251-3C4, w/ Intel Core i3-8100T, 4-Core
3.1GHz, 1x VGA, 1x HDMI, 3x COM, 4x GbE PoE,
8GB DDR4

Artikel-Nr. PKBX5376
VTC 7251, w/ Intel Core i7-8700T, 6-Core 2.4GHz,
1x VGA, 1x HDMI, 3x COM, 2x GB LAN, 8GB
DDR4

Artikel-Nr. PKBX5376-1
VTC 7251, w/ Intel Core i5-8500T, 6-Core 2.1GHz,
1x VGA, 1x HDMI, 3x COM, 2x GB LAN, 8GB
DDR4

Artikel-Nr. PKBX5376-2
VTC 7251, w/ Intel Core i3-8100T, 4-Core 3.1GHz,
1x VGA, 1x HDMI, 3x COM, 2x GB LAN, 8GB
DDR4

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Vehicle Telematics Computer 7250-7C8



Advanced Telematics Computer 8010-7



Vehicle Telematics Computer 7240-BK

Cooling System	Fanless	Fanless	Fanless
Mounting System	Wall Mount, DIN Rail	Wall Mount, DIN Rail	Wall Mount
CPU	Intel® Core i7-8700T (8th Gen.) Coffee Lake processor, 6-Core, 2.4GHz	Intel® Core™ 8th Gen. i7-8700T processors, 2.4GHz, 35W, 6 core	Intel® Core processor dual core i7-5650U, 2.2GHz
CPU Socket	-	-	-
Chipset	Intel® Q370 platform controller hub	Intel® Q370 Platform cController hub	-
BIOS	-	-	-
Watchdog Timer	-	Programmable 1 to 255 sec.	-
Controller	-	-	-
Basic Equipment	8GB	-	2GB
Maximum Equipment	64GB (for two channels)	64G (for two channels)	16GB
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	Dual-Channel 204-pin DDR4 SO-DIMM	Dual-Channel 260-pin DDR4 SO-DIMM	DDR3L SO-DIMM
Compact Flash	-	-	1x CFast
SD	-	-	-
HDD	-	-	-
HD SATA	2x 2,5" SATA 3.0 external SSD, 2x mSATA	2x 2,5" SATA 3.0 external SSD, 2x mSATA	2x 2,5" SATA 3.0 SSD/HDD (externally accessible)
HD PATA	-	-	-
PCMCIA	-	-	-
Removable Storage	-	-	-
Graphic Interface	1x VGA/CRT, 1x HDMI, 1x UltraONE+	Optional Graphics Card up to NVIDIA® RTX 2080Ti Graphics Adapter, 1 x VGA (max resolution: 1920 x 1200@60Hz) VGA/CRT, 1 x HDMI 1.4b from Intel CPU (max resolution: 4096 x 2160 at 30Hz) HDMI, 1 x ultraONE+ for 10M video + audio output + 24VDC output UltraONE+	1x VGA/CRT, 1x DisplayPort
Interface COM	2x RS232, 1x RS232/422/485	4x RS232/RS422/RS485	2x RS-232, 1x RS-232/422/485
CAN	1x	1 x Isolated CANBus 2.0B	1x DB-9 for CAN 2.0B
CAN2	-	-	-
Galvanic Isolation	x	-	-
Interface USB	6x USB 3.0	2 x USB 3.2 (Gen2) type A (5V/1A) FRONT USB, 3x USB 2.0, 4 x USB 3.2 (Gen2) type A (5V/1A) REAR USB 3.0	2x USB 2.0, 2x USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	9x RJ45 10/100/1000 BASE-T, 8x RJ45 PoE	8 x LAN, I210-IT 10/100/1000 BASE-T, 8 x PoE 802.3af/at (max. 60W) PoE	2x 10/100/1000 BASE-T, WLAN
Interface IO	GPIO, 4x Digital Input, 4x Digital Output	4x Digital Input, 4x Digital Output	8x GPIO
Mini PCIe	3x	3x	3x Full Size, 1x Half Size
Mini PCI	-	-	-
Camera	-	-	-
Video Input	-	-	-
Resolution	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Bluetooth	-	-	-
eSATA	-	-	-
Sound	-	-	-
Audio	1x Mic-in, 1x Line-out	1x Mic-in, 1x Line-out	1x Mic-In, 1x Line-Out
Headphone	-	-	-
SIM Card	3x	2 x Externally accessible SIM sockets, 1 x internal SIM socket	2x
GPS	1x U-blox NEO-M8N GPS module	1x U-blox NEO-M8N GPS module	1x u-blox NEO-M8N GPS module
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCI	-	-	-
PCIe	3x Mini PCIe	3x	3x Full Size Mini PCIe, 1x Half Size Mini PCIe
PCI/104	-	-	-
Operating System	-	-	Windows 10 / 8 / 7, WES8 / 7, Linux Kernel 3.X
Operating System Support	Windows 10, Linux, YOCTO (by request)	Windows 10/11, Linux	-
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 36VDC	9 to 36VDC	-
Output Voltage Nominal	-	-	12VDC
Output Voltage Min/Max	-	-	-
Input Current	35W	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	-20°C to 60°C (with industrial SSD)	-30°C to 60°C	-30°C to 55°C (w/ industrial SSD) with air flow -20°C to 45°C (w/ commercial HDD) with air flow
Extended Operating Temperature	-	-	-
Storage Temperature	-40°C to 80°C	-40°C to 80°C	-35°C to 85°C
Relative Humidity	90%	90% (non-condensing)	10% to 90%, non-condensing
Protection	Vibration & Shock	Vibration & Shock	-
Certification	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), MIL-STD-810G, Class A FCC	CE, e13 (Vehicle), MIL-STD-810G, FCC
Dimensions	260 x 256 x 90,1 mm (W x D x H)	260 x 256 x 90,1 mm (W x D x H)	260 x 206 x 79.5mm (W x D x H)
Weight	5,8 kg	6 Kg	-
Material	-	-	-
Typ. Application	Automotive	Industrial, Automotive, Railway	Industrial, Automotive

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Vehicle Telematics Computer 7250-7C8



Advanced Telematics Computer 8010-7



Vehicle Telematics Computer 7240-BK

Artikel-Nr. PKBX5366
VTC 7250-7C8, w/ Intel Core i7-8700T, 6-Core
2.4GHz
, 1x VGA, 1x HDMI, 3x COM, 8x PoE, 8GB DDR4,
ultraONE+ video-out

Artikel-Nr. DMXX1087
VMD 2003-BS, 8,0" w/ resistive TouchScreen,
1.000cd/m², SVGA, 4x CVBS, USB, ultraONE+
video-in

Artikel-Nr. DMXX1091
VMD 3110-4PH, 10,4" w/ Projected capacitive
TouchScreen, 1.200cd/m², XGA, 4x CVBS, USB,
COM, ultraONE+ video-in

Artikel-Nr. BPLK1138
ultraOne+ All-in-One Cable 5 Meter, D-SUB HD 9
connector, USB, Power, Video & Audio

Artikel-Nr. BPLK1137
ultraOne+ All-in-One Cable 10 Meter, D-SUB HD 9
connector, USB, Power, Video & Audio

Artikel-Nr. PKBX5905
ATC 8010-7 Intel Core 8thGen.i7-8700T,2.4GHz,
6Core, 1xLAN, 8xPoE,CANBUS 2.0,
32GB DDR4,ultraONE + Fanless

Artikel-Nr. PKBX5365
VTC 7240-BK, Intel Core i7-5650U, 2GB DDR3L,
VGA, DP, 3x USB

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Vehicle Telematics Computer 7230-BK



Automotive Compact-PC 230 Type 1



Vehicle Telematics Computer 1031

Cooling System	Fanless	Fanless	Fanless
Mounting System	Wall Mount	Optional Wall Mount, Optional DIN Rail, Optional VESA	Wall Mount
CPU	Intel® Core processor dual core i3-5010U, 2.1GHz	Intel Atom® Processor E3900 Series	Intel Atom® Elkhart Lake x6213E (Dual Core) processor, 1.5GHz (Burst), TDP 9W
CPU Socket	-	-	-
Chipset	-	-	-
BIOS	-	AMI SPI 64Mbit	-
Watchdog Timer	-	System Reset, Programmable via Software from 1 to 255 Sec.	10~255 seconds
Controller	-	-	-
Basic Equipment	2GB	4GB	4GB
Maximum Equipment	16GB	8GB	32GB
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L SO-DIMM	DDR3L 1.600/1.866MHz SODIMM	1x 260-pin DDR4 SO-DIMM
Compact Flash	1x CFast	-	-
SD	-	-	-
HDD	-	-	-
HD SATA	2x 2.5" SATA 3.0 SSD/HDD (externally accessible)	32GB eMMC onboard (up to 64GB), 1x mSATA slot	1 x 2.5" SATA 3.0 internal drive bay (9.5mm)
HD PATA	-	-	-
PCMCIA	-	-	-
Removeable Storage	-	-	-
Graphic Interface	1x VGA/CRT, 1x DisplayPort	Intel® HD Graphics Graphics Adapter, DVI, HDMI	1x VGA/CRT, 1x HDMI
Interface COM	2x RS-232, 1x RS-232/422/485	1x RS232/422/485	2x RS232/422/485
CAN	1x DB-9 for CAN 2.0B	Dual CAN Bus Support	1x Isolated CANBus 2.0B
CAN2	-	-	-
Galvanic Isolation	-	-	x
Interface USB	2x USB 2.0, 2x USB 3.0	2x USB 2.0, 2x USB 3.0	3x USB 2.0 type A USB 2.0, 1x USB 3.2 Gen 2 type A USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	2x 10/100/1000 BASE-T, WLAN	2x 10/100/1000 BASE-T, Optional WLAN	1 x M.2 2230 Key E socket (USB 2.0, PCIe 3.0 x2), 1 x M.2 3042/3050/3052 Key B socket (USB 2.0, USB 3.2 Gen 2)for LTE/5G NR module with 2 x external micro SIM 10/100/1000 BASE-T, 5G NR and Wi-Fi 6/6E WLAN, 2x LAN RJ45, 10/100/1.000/2.500 Mbps PoE
Interface IO	8x GPIO	8-bit DIO GPIO	GPIO, 5x Digital Input, 4x Digital Output
Mini PCIe	3x Full Size, 1x Half Size	3x	1 x Full size mini-Pcie socket
Mini PCI	-	-	-
Camera	-	-	-
Video Input	-	-	-
Resolution	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Bluetooth	-	-	-
eSATA	-	-	-
Sound	-	-	-
Audio	1x Mic-In, 1x Line-Out	1x Audio Out	1x Mic-in & 1x Line-out
Headphone	-	-	-
SIM Card	2x	Dual SIM support	2 x Externally accessible micro SIM card sockets with cover
GPS	1x u-blox NEO-M8N GPS module	Support GPS	1x U-blox NEO-M8N GPS module
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCI	-	-	-
PCIe	3x Full Size Mini PCIe, 1x Half Size Mini PCIe	-	-
PCI/104	-	-	-
Operating System	Windows 10 / 8 / 7, WES8 / 7, Linux Kernel 3.X	WINDOWS 0 IoT Ent., Linux, CentOS 7	WINDOWS 10 / 11 / LINUX
Operating System Support	-	-	-
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	-	9 to 36VDC	9 to 36VDC
Output Voltage Nominal	12VDC	-	12V / 2A DC
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	-30°C to 55°C (w/ industrial SSD) with air flow -20°C to 45°C (w/ commercial HDD) with air flow	-40°C to 70°C	-
Extended Operating Temperature	-	-	-40°C to 70°C
Storage Temperature	-35°C to 85°C	-40°C to 85°C	-40°C to 85°C
Relative Humidity	10% to 90%, non-condensing	-	90% (non-condensing)
Protection	-	-	Vibration & Shock MIL-STD-810H
Certification	CE, e13 (Vehicle), MIL-STD-810G, FCC	CE, e13 (Vehicle), Class B FCC	CE, e13 (Vehicle), Class A FCC, RoHS
Dimensions	260 x 206 x 79.5mm (W x D x H)	180 x 50 x 121,2 mm (W x H x D)	180 x 180 x 50 mm (W x D x H)
Weight	-	1 Kg	1,7kg (PKBX5423-1) 1,75kg (PKBX5423-2)
Material	-	Aluminum + SPGC Metal	-

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Vehicle Telematics Computer 7230-BK



Automotive Compact-PC 230 Type 1



Vehicle Telematics Computer 1031

	Artikel-Nr. PKBX5364 VTC 7230-BK, Intel Core i3-5010U, 2GB DDR3L, VGA, DP, 3x USB	Artikel-Nr. PKBX8100 Automotive Compact-PC 230 Type 1, Atom X7-E3950, 4GB DDR3L, 1x HDMI, 1x DVI-I, 2x LAN, 1x COM, 4x USB, 32GB eMMC	Artikel-Nr. PKBX5423-1 VTC 1031, Intel Atom x6213E Processor 1.5GHz, DDR4 SO-DIMM 32GB, 5G NR, 2x LAN RJ4, U-blox M9N GNSS
		Artikel-Nr. PKBX8101 Automotive Compact-PC 230 Type 1, Atom X5-E3940, 4GB DDR3L, 1x HDMI, 1x DVI-I, 2x LAN, 1x COM, 4x USB, 32GB eMMC	Artikel-Nr. PKBX5423-2 VTC 1031, Intel Atom x6213E Processor 1.5GHz, DDR4 SO-DIMM 32GB, 2xPOE, 60W, 5G NR, 2x LAN RJ45, M9N
		Artikel-Nr. PKBX8102 Automotive Compact-PC 230 Type 1, Atom X5-E3930, 4GB DDR3L, 1x HDMI, 1x DVI-I, 2x LAN, 1x COM, 4x USB, 32GB eMMC	

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Vehicle Telematics Computer 1030



Vehicle Telematics Computer
6222-GC10T



Vehicle Telematics Computer 6222

Cooling System	Fanless	Fanless	Fanless
Mounting System	Wall Mount	Wall Mount	Wall Mount
CPU	Intel Atom® Elkhart Lake x6211E (Dual Core) processor, 1.3GHz/3GHz (Burst), TDP 6W	Intel Atom® E3950 processor 1.6GHz (up to 2.0GHz), Quad Core, 12W	Intel Atom® E3950 processor 1.6GHz (up to 2.0GHz), Quad Core, 12W
CPU Socket	-	-	-
Chipset	Intel® GEN11-LP GT1	-	-
BIOS	-	-	-
Watchdog Timer	10–255 seconds WDT support	-	-
Controller	-	-	-
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	32GB	8GB	8GB
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	1x 260-pin DDR4 SO-DIMM	DDR3L SO-DIMM	DDR3L SO-DIMM
Compact Flash	-	-	-
SD	-	1x	1x
HDD	-	-	-
HD SATA	1 x 2.5" SATA 3.0 internal drive bay (9.5mm)	1x 2.5" SSD SATA 3.0	1x 2.5" SSD SATA 3.0
HD PATA	-	-	-
PCMCIA	-	-	-
Removeable Storage	-	-	-
Graphic Interface	1x VGA/CRT, 1x HDMI	Google Edge TPU (Coral ML Accelerator Module) Graphics Adapter, 1x VGA/CRT, 2x HDMI	Intel® HD graphics 505 Graphics Adapter, 1x VGA/CRT, 2x HDMI
Interface COM	2x RS232/422/485	2x RS232, 1x RS422/485	2x RS232, 1x RS422/485
CAN	1x Isolated CANBus 2.0B	1x	1x
CAN2	-	-	-
Galvanic Isolation	X	-	-
Interface USB	1x USB 2.0 type A USB 2.0, 1x USB 3.2 Gen 2 type A USB 3.0	1x USB DOM to run OS USB, 2x USB 2.0, 1x USB 3.0	1x USB DOM to run OS USB, 2x USB 2.0, 1x USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	1 x M.2 2230 Key E socket ((USB 2.0, PCIe 3.0 x2)), 1 x M.2 3042/3050/3052 Key B socket (USB 2.0, USB 3.2 Gen 2)for LTE/5G NR module with 2 x external micro SIM 10/100/1000 BASE-T, 5G NR and Wi-Fi 6/6E WLAN, 2x LAN RJ45, 10/100/1.000/2.500 Mbps PoE	5x 10/100/1000 BASE-T, 4x PoE	5x 10/100/1000 BASE-T, 4x PoE
Interface IO	GPIO, 5x Digital Input, 4x Digital Output	GPIO, 4x Digital Input, 4x Digital Output	GPIO, 4x Digital Input, 4x Digital Output
Mini PCIe	1 x Full size mini-PCIe socket	3x	3x
Mini PCI	-	-	-
Camera	-	-	-
Video Input	-	-	-
Resolution	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Bluetooth	-	-	-
eSATA	-	-	-
Sound	-	-	-
Audio	1x Mic-in & 1x Line-out	1x Mic-in + 1x Line-out	1x Mic-in + 1x Line-out
Headphone	-	-	-
SIM Card	2 x Externally accessible micro SIM card sockets with cover	2x externally SIM card sockets	2x externally SIM card sockets
GPS	1x U-blox NEO-M8N GPS module	1x u-blox NEO-M8N GNSS module	1x u-blox NEO-M8N GNSS module
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCI	-	-	-
PCIe	-	-	-
PCI/104	-	-	-
Operating System	WINDOWS 10 /11 / LINUX	-	-
Operating System Support	-	Debian LINUX and other variants	WINDOWS 10 / LINUX Ubuntu 16.04/18.04
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 36VDC	9 to 48VDC	9 to 48VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	-	-20°C to 60°C	-40°C to 70°C
Extended Operating Temperature	-40°C to 70°C	-	-
Storage Temperature	-40°C to 85°C	-40°C to 80°C	-40°C to 80°C
Relative Humidity	90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Protection	IP65 compliance, Vibration & Shock	Vibration & Shock	Vibration & Shock
Certification	CE, e13 (Vehicle), Class A FCC, RoHS	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), Class A FCC
Dimensions	185 x 120 x 45 mm (W x D x H)	260 x 196 x 66,5 mm (W x D x H)	260 x 196 x 66,5 mm (W x D x H)
Weight	1,5 kg	3,2 kg	3,2 kg
Material	-	-	-
Typ. Application	Automotive	Automotive	Automotive

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Vehicle Telematics Computer 1030



Vehicle Telematics Computer
6222-GCIoT



Vehicle Telematics Computer 6222

	Artikel-Nr. PKBX5423 VTC 1030, Intel Atom x6211E Processor 1.3GHz/3GHz, DDR4 SO-DIMM 32GB,USB3.2/2.0,2xLAN RJ45,COM1,SMA	Artikel-Nr. PKBX5389 VTC 6222-GCIoT, Google Edge TPU, Intel Atom E3950 1.6GHz, 4GB DDR3L, 1x VGA, 2x HDMI	Artikel-Nr. PKBX5387 VTC 6222-C4S, Intel Atom E3950 1.6GHz, 4GB DDR3L, 1x VGA, 2x HDMI, 3x COM, 1x CAN, 4x PoE
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Vehicle Telematics Computer 6221



Vehicle Telematics Computer 6220-BK



Vehicle Telematics Computer 1021

Cooling System	Fanless	Fanless	Fanless
Mounting System	Wall Mount	Wall Mount, DIN Rail	Wall Mount
CPU	Intel Atom® E3950 processor 1.6GHz (up to 2.0GHz), Quad Core, 12W	Intel Atom Apollo Lake x7-E3950 Quad Core, 2.0GHz	Intel® Atom Apollo Lake E3940 processor, quad core 1.8GHz
CPU Socket	-	-	-
Chipset	-	-	-
BIOS	-	-	-
Watchdog Timer	-	-	-
Controller	-	-	-
Basic Equipment	4GB	4GB	4GB
Maximum Equipment	8GB	8GB	8GB
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L SO-DIMM	DDR3L SO-DIMM 1.066MHz / 1.333MHz	DDR3L SO-DIMM
Compact Flash	-	-	-
SD	-	-	-
HDD	-	-	-
HD SATA	1x 2.5" SSD SATA 3.0, 1x CFast, optional mSATA	2x removable 2.5" SSD tray (externally accessible)	1x 2.5" SATA 2.0, 1x mSATA
HD PATA	-	-	-
PCMCIA	-	-	-
Removeable Storage	-	-	-
Graphic Interface	Intel® HD graphics 505 Graphics Adapter, 2x VGA/CRT, 1x HDMI	1x VGA/CRT, 1x HDMI, 1x by request LCD-LVDS, 1x by request UltraONE+	1x VGA/CRT, 1x HDMI
Interface COM	2x RS232, 1x RS485	2x RS232, 1x RS422/485	1x 1x DB9 for Expansion port (optional), 1x 1x DB9 for fully RS232, 1x 1x RS232 Tx/Rx, 1x 1x RS422/RS485
CAN	1x	1x	1x CAN2.0B (optional OBD2 SAE J1708 / SAE J1939)
CAN2	-	-	-
Galvanic Isolation	-	-	-
Interface USB	3x (1x via Multi port cable) USB 2.0, 1x USB 3.0	1x USB 2.0, 2x USB 3.0	2x USB 2.0, 1x USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	2x 10/100/1000 BASE-T	3x RJ45 (optional 1x RJ45 + 2x M12) 10/100/1000 BASE-T, Optional WLAN, 2x PoE by request PoE	2x 10/100/1000 BASE-T, WLAN, 2x RJ45 PoE (for PKBX5334) PoE
Interface IO	GPIO, 4x Digital Input, 4x Digital Output	GPIO, 4x Digital Input, 4x Digital Output	3x Digital Input, 3x Digital Output
Mini PCIe	3x	3x	3x Mini PCIe socket
Mini PCI	-	-	-
Camera	-	-	-
Video Input	-	-	-
Resolution	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Bluetooth	-	-	-
eSATA	-	-	-
Sound	-	-	-
Audio	1x Mic-in + 2x Line-out	2x Mic-in, 2x Line-out	1x Line-out / MIC-in
Headphone	-	-	-
SIM Card	6x externally SIM card sockets	4x	2x External accessible SIM card socket (selectable)
GPS	1x u-blox NEO-M8N GNSS module	1x U-blox NEO-M8N (optional NEO-M8U) GPS module	1x u-blox NEO-M8N GPS module
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCI	-	-	-
PCIe	-	3x Mini PCIe	3x Mini PCIe socket
PCI/104	-	-	-
Operating System	-	Windows 10, Yocto (by request)	-
Operating System Support	WINDOWS 10, LINUX	-	WINDOWS 10 / LINUX Yocto/Ubuntu 16.04/18.04
Input Voltage Nominal	-	12VDC	-
Input Voltage Min/Max	9 to 48VDC	-	-
Output Voltage Nominal	-	-	12VDC / 2A
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Input Power	-	-	total 60W (for PKBX5334)
Battery	-	Inside backup battery NiMH 600mAh (PKBC5391-1)	-
Operating Temperature	-40°C to 70°C	-40°C to 70°C (with industrial SSD)	-40°C to 70°C (w/ industrial SSD)
Extended Operating Temperature	-	-	-
Storage Temperature	-40°C to 80°C	-45°C to 85°C	-40°C to 85°C
Relative Humidity	10% to 90% (non-condensing)	95%	95%
Protection	Shock protection	-	Vibration & Shock
Certification	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), Class A FCC
Dimensions	260 x 196 x 50 mm (W x D x H)	259 x 196 x 50 mm (W x D x H)	180 x 180 x 50 mm (W x D x H)
Weight	2,5 kg	1,7 kg	1,7 kg
Material	-	-	-
Typ. Application	Automotive	Automotive	Automotive, Mobile

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Vehicle Telematics Computer 6221



Vehicle Telematics Computer 6220-BK



Vehicle Telematics Computer 1021

Artikel-Nr. PKBX5386 VTC 6221, Intel Atom E3950 1.6GHz, 4GB DDR3L, 2x VGA, 1x HDMI, 3x COM, 1x CAN	Artikel-Nr. PKBX5391 VTC 6220-BK, Intel Atom x7-E3950, 2.0GHz, 4GB DDR3L, 1x VGA, 1x HDMI, 3x COM, 1x CAN, 3x LAN	Artikel-Nr. PKBX5333 VTC 1021-BK, w/ Intel Atom E3940 Quad Core 1.8GHz, 4GB DDR3L, 1x VGA, 1x HDMI, 3x COM, 1x CAN, 2x GbE, 1x Audio
	Artikel-Nr. PKBC5391 VTC 6220-DELTA, Intel Atom x7-E3950 2.0GHz, GPS, 2GB DDR3L, 3x COM, 1x CAN, VGA + HDMI, 3x LAN (RJ45/M12)	Artikel-Nr. PKBX5334 VTC 1021-C2K, w/ Intel Atom E3940 Quad Core 1.8GHz, 4GB DDR3L, 1x VGA, 1x HDMI, 3x COM, 1x CAN, 2x GbE, 1x Audio, 2x PoE
	Artikel-Nr. PKBC5391-1 VTC 6220-DELTA, Intel Atom x7-E3950 2.0GHz, GPS, 2GB DDR3L, 3x COM, 1x CAN, VGA + HDMI, 3x LAN (RJ45/M12), backup battery	Artikel-Nr. PKBX5334-1 VTC 1021-HBioT, Intel Atom x5- E3940 ApoLake 1.6GHz, 4GB DDR3L, HailoAI, UbloxM8N, VGA, HDMI, CAN, USB Artikel-Nr. PKBX5334-2 VTC 1021-HCIoT, Intel Atom x5- E3940 ApoLake 1.6GHz, 4GB DDR3L, Hailo AI, UbloxM8N, VGA, HDMI, CAN, USB, PoE

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Vehicle Telematics Computer 1020



Vehicle Telematics Computer 1020-PA



Vehicle Telematics Computer 6210-BK

Cooling System	Fanless	Fanless	Fanless
Mounting System	Wall Mount	Wall Mount	Wall Mount, DIN Rail
CPU	Intel® Atom x5-E3930 processor dual core 1.3GHz	Intel® Atom x5-E3930 processor dual core 1.3GHz	Intel Atom processor quad core E3845, 1.91GHz
CPU Socket	-	-	-
Chipset	-	-	-
BIOS	-	-	-
Watchdog Timer	-	-	-
Controller	-	-	-
Basic Equipment	4GB	4GB	2GB
Maximum Equipment	8GB	8GB	8GB
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L SO-DIMM	DDR3L SO-DIMM	DDR3 SO-DIMM
Compact Flash	-	-	1x
SD	-	-	-
HDD	-	-	-
HD SATA	1x 2.5" SSD SATA 3.0, 1x mSATA	1x 2.5" SSD SATA 3.0, 1x mSATA	1x 2.5" SATA 2.0
HD PATA	-	-	-
PCMCIA	-	-	-
Removeable Storage	-	-	-
Graphic Interface	1x VGA/CRT, 1x HDMI	1x VGA/CRT, 1x HDMI, 1x LCD-LVDS	1x VGA/CRT, 1x DisplayPort
Interface COM	1x 1x DB15 COM port for 4x RS232 Tx/Rx and 2x RS485, 1x 1x DB15 for multi port	1x 1x DB15 COM port for 4x RS232 Tx/Rx and 2x RS485, 1x 1x DB15 for multi port	2x RS232, 1x RS422/485
CAN	1x CAN2.0 (optional SAE J1939)	1x CAN 2.0 (BOM option SAE J1939)	1x
CAN2	-	-	-
Galvanic Isolation	-	-	-
Interface USB	2x USB 3.0	2x USB 3.0	1x USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	1x 10/100/1000 BASE-T, WLAN	1x 10/100/1000 BASE-T, WLAN	2x RJ45 (optional additional 2x M12) 10/100/1000 BASE-T, Optional WLAN
Interface IO	5x Digital Input, 5x Digital Output	5x Digital Input, 5x Digital Output	-
Mini PCIe	2x Mini PCIe	2x Mini PCIe	3x Mini PCIe, 1x half size Mini PCIe
Mini PCI	-	-	-
Camera	-	-	-
Video Input	-	-	-
Resolution	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Bluetooth	-	-	-
eSATA	-	-	-
Sound	-	-	-
Audio	1x Audio-in, 1x Audio-out	3x Audio-in, 3x Audio-out	1x Mic-in, 1x Line-out
Headphone	-	-	-
SIM Card	1x	1x external	2x
GPS	1x u-blox NEO-M8N GPS module	1x u-blox NEO-M8N GPS module	1x U-blox NEO-M8N (optional NEO-M8U) GPS module
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCI	-	-	-
PCIe	2x Mini PCIe	2x Mini PCIe	3x Mini PCIe, 1x half size Mini PCIe
PCI/104	-	-	-
Operating System	Windows 10, Linux kernel 4.8 (or later), Linux YOCTO (by request)	Windows 10, Linux kernel 4.8 (or later), Linux YOCTO (by request)	Windows 10 / 8 / 7, WES8 / 7, Fedora, Linux 3.x, Wind River® Intelligent Device Platform XT 2.0
Operating System Support	-	-	-
Input Voltage Nominal	5VDC TTL (internal type)	5VDC TTL (internal type)	-
Input Voltage Min/Max	9 to 36VDC	9 to 36VDC	9 to 36VDC
Output Voltage Nominal	5VDC TTL (sink type)	5VDC TTL (sink type)	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Input Power	20W	20W	-
Battery	-	-	-
Operating Temperature	-40°C to 70°C	-40°C to 70°C	-30°C to 70°C (SSD)
Extended Operating Temperature	-	-	-
Storage Temperature	-40°C to 85°C	-40°C to 85°C	-35°C to 85°C
Relative Humidity	10% to 90%, non-condensing	10% to 90%, non-condensing	10% to 90%, non-condensing
Protection	-	-	-
Certification	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), FCC
Dimensions	185 x 120 x 45 mm (W x D x H)	185 x 120 x 50 mm (W x D x H)	260 x 176 x 50mm (W x D x H)
Weight	1kg	1,1kg	2.1kg
Material	Aluminum top case with metal sheet	Aluminum top case with metal sheet	-
Typ. Application	Automotive	Automotive	Automotive

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Vehicle Telematics Computer 1020



Vehicle Telematics Computer 1020-PA



Vehicle Telematics Computer 6210-BK

	Artikel-Nr. PKBX5331-1 VTC 1020, w/ Intel Atom x5-E3930 Dual Core 1.3GHz, 1x VGA, 1x HDMI, 7x COM, 1x CAN, 1x Audio, 4GB DDR3L	Artikel-Nr. PKBX5332-2 VTC 1020-PA, w/ Intel Atom x5-E3930 Dual Core 1.3GHz, 1x VGA, 1x HDMI, 1x LVDS, 7x COM, 1x CAN, 3x Audio, 4GB DDR3L	Artikel-Nr. PKBX5393 VTC 6210-BK, Intel Atom E3845 1.91GHz, GPS, VGA, 3x COM, 2GB RAM, 2x LAN (RJ45)
	Artikel-Nr. PKBX5331-2 VTC 1020, w/ Intel Atom x5-E3930 Dual Core 1.3GHz, 1x VGA, 1x HDMI, 7x COM, 1x CAN, 1x Audio, 8GB DDR3L	Artikel-Nr. PKBX5332-3 VTC 1020-PA, w/ Intel Atom x5-E3930 Dual Core 1.3GHz, 1x VGA, 1x HDMI, 1x LVDS, 7x COM, 1x CAN, 3x Audio, 8GB DDR3L	Artikel-Nr. PKBC5393 VTC 6210-DELTA, Intel Atom E3845 1.91GHz, GPS, 3x COM, 2GB DDR3L, VGA + DP, 4x LAN (RJ45/M12)

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Vehicle Telematics Computer 6210-VR4



Vehicle Telematics Computer
6210-RA/RF



Vehicle Telematics Computer
6210-RAG

(Order to illustration, please refer to the dimension drawing)

Cooling System	Fanless	Fanless	Fanless
Mounting System	Wall Mount, DIN Rail	DIN Rail	Wall Mount, DIN Rail
CPU	Intel Atom processor quad core E3845, 1.91GHz	Intel® Core processor dual core i7-4650U, 1.7GHz	Intel® Core processor dual core i7-4650U, 1.7GHz
CPU Socket	-	-	-
Chipset	-	-	-
BIOS	-	-	-
Watchdog Timer	-	-	-
Controller	-	-	-
Basic Equipment	2GB	2GB	4GB
Maximum Equipment	8GB	8GB	8GB
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	DDR3 SO-DIMM	DDR3L SO-DIMM	DDR3L SO-DIMM
Compact Flash	1x	1x CFast (externally accessible)	1x CFast (externally accessible)
SD	-	-	-
HDD	-	-	-
HD SATA	1x 2.5" SATA 2.0	1x 2.5" SATA 2.0 (externally accessible)	1x 2.5" SATA
HD PATA	-	-	-
PCMCIA	-	-	-
Removeable Storage	-	-	-
Graphic Interface	1x VGA/CRT, 1x DisplayPort	VGA/CRT, DisplayPort	1x VGA/CRT, 1x DisplayPort
Interface COM	1x RS232, 1x RS422/485	2x RS232 (isolation), 1x RS232/422/485 (isolation)	2x RS232 (isolation), 1x RS232/422/485 (isolation)
CAN	1x	1x CAN Bus 2.0B 1x optional CAN/OBDII module (CAN Bus 2.0B or OBDII SAE J1939)	1x CAN Bus 2.0B 2x optional CANBus 2.0B from CAN04 module
CAN2	-	-	-
Galvanic Isolation	-	-	-
Interface USB	1x USB 3.0	1x M12 with 2x USB 2.0 USB 2.0, 1x USB 3.0	2x USB 2.0
Interface IEEE1394	-	-	-
Interface LAN	2x RJ45 10/100/1000 BASE-T, Optional WLAN	2x M12 (optional additional 1x RJ45) 10/100/1000 BASE-T, Optional WLAN	2x M12 (optional additional 1x RJ45) 10/100/1000 BASE-T, Optional WLAN
Interface IO	-	4x DI, 4x DO GPIO	GPIO, 4x Digital Input, 4x Digital Output
Mini PCIe	4x	3x	3x
Mini PCI	-	-	-
Camera	-	-	-
Video Input	4-channel video inputs, Recording video format: MPEG4 / H.264 (software compression), Video resolution: Max D1 (NTSC)	-	-
Resolution	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Bluetooth	-	Optional	Optional
eSATA	-	-	-
Sound	-	-	-
Audio	1x Mic-in, 1x Line-out	1x Line-out, 1x Mic-in	1x Line-out, 1x Mic-in
Headphone	-	-	-
SIM Card	3x	2x	2x
GPS	1x U-blox NEO-M8N GPS module	1x U-blox NEO-M8N (optional NEO-M8U) GPS module	1x U-blox NEO-M8N (optional NEO-M8U) GPS module
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	-
PCI	-	-	-
PCIe	4x Mini PCIe	3x Mini PCIe	3x Mini PCIe
PCI/104	-	-	-
Operating System	Windows 10 / 8 / 7, WES8 / 7, Fedora, Linux Kernel 3.x, Wind River® Intelligent Device Platform XT 2.0	Windows 10 / 8 / 7, WES8 / 7, Linux Kernel 3.x	Windows 10 / 8 / 7, WES8 / 7, Linux Kernel 3.x
Operating System Support	-	-	-
Input Voltage Nominal	-	24/36VDC or 110VDC	Supporting 24VDC in for EN50155 class S2
Input Voltage Min/Max	9 to 36VDC	16,8 to 31,2V non-isolation or 25,2 to 46,8V non-isolation	16,8 to 31,2VDC isolated
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Input Power	90W	-	-
Battery	-	-	-
Operating Temperature	-30°C to 70°C (SSD)	-40°C to +70°C (w/ industr. SSD) / -20°C to +45°C (w/ HDD)	-25°C to 70°C (w/ industr. SSD) / -20°C to 45°C (w/ HDD)
Extended Operating Temperature	-	-	-
Storage Temperature	-35°C to 85°C	-35°C to +85°C	-40°C to 85°C
Relative Humidity	10% to 90%, non-condensing	10% to 90%, non-condensing	10% to 90%, non-condensing
Protection	-	-	-
Certification	CE, e13 (Vehicle), FCC	CE, class S2 EN50155 (Railway), FCC	CE, EN50155 (Railway), FCC
Dimensions	260 x 176 x 50mm (W x D x H)	260 x 176 x 70 mm (W x D x H)	260 x 176 x 87,5 mm (W x D x H)
Weight	2.1kg	2,5kg	-
Material	-	-	-
Typ. Application	Automotive	Railway	Railway

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Vehicle Telematics Computer 6210-VR4

Vehicle Telematics Computer
6210-RA/RF

Vehicle Telematics Computer
6210-RAG

	Artikel-Nr. PKBX5393-1 VTC 6210-VR4, 4-channel video inputs, Intel Atom E3845 1.91GHz, GPS, VGA, 2x COM, 2GB RAM, DP	Artikel-Nr. PKBX5608 VTC 6210-RA with EN50155 class TX, Atom E3845, 1.91GHz, 2GB DDR3L, 24/36VDC Input Artikel-Nr. PKBX5608-1 VTC 6210-RF with EN50155 class TX, Atom E3845, 1.91GHz, 2GB DDR3L, 110VDC Input Artikel-Nr. PKBC5608 VTC 6210-RA-DELTA with EN50155 class TX, Intel Atom E3845 1.91GHz, GPS, 2GB DDR3L, 3x LAN (RJ45/M12), 24/36VDC In	Artikel-Nr. PKBX5608-2 VTC 6210-RAG with EN50155 class TX, Atom E3845, 1.91GHz, 2GB DDR3L, 16,8 to 31,2VDC Input isolated Artikel-Nr. PKBC5608-2 VTC 6210-RAG-DELTA with EN50155 class TX, Intel Atom E3845 1.91GHz, GPS, 2GB DDR3L, 3x LAN (RJ45/M12), 24VDC In isolated Artikel-Nr. PKBC5608-3 VTC 6210-RAG-T-DELTA with EN50155 class TX, Intel Atom E3845 1.91GHz, GPS, 2GB DDR3L, 3x LAN (RJ45/M12), 24VDC In isolated, SuperCAP
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Vehicle Telematics Computer 6201



Vehicle Telematics Computer 1010



Vehicle Telematics Computer 1011

Cooling System	Fanless	Fanless	Fanless
Mounting System	Wall Mount, DIN Rail	Wall Mount	Wall Mount
CPU	Intel Atom D510 Dual Core 1.66GHz	Intel® Atom E3827, Dual Core 1.75GHz	Intel Atom® Bay Trail E3825 processor, Dual Core, 1.33GHz
CPU Socket	-	-	-
Chipset	Intel ICH8M	-	-
BIOS	x	-	-
Watchdog Timer	x	-	-
Controller	-	-	-
Basic Equipment	-	2GB	2GB
Maximum Equipment	2GB	8GB	8GB
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	x	DDR3 SO-DIMM	DDR3L SO-DIMM
Compact Flash	-	-	-
SD	-	1x external accessible	-
HDD	-	-	-
HD SATA	1x 2.5" SATA HDD	1x 2,5" SATA 2.0	1x 2,5" SATA 2.0, 1x mSATA
HD PATA	-	-	-
PCMCIA	-	-	-
Removeable Storage	-	-	-
Graphic Interface	2x VGA/CRT, 1x LCD-LVDS	1x VGA/CRT, 1x DisplayPort, 4x BNC	1x VGA/CRT, 1x (PKBX5325) HDMI, 1x (PKBX5326) UltraONE+
Interface COM	2x RS232, 1x RS485	1x RS232, 1x RS422/485	1x DB15 multi-port for RS232(Tx/Rx)/RS422/RS484, 2x DB9 for RS232
CAN	-	1x (ASE J1939 or J1708)	1x (SAE J1939 or J1708)
CAN2	-	-	-
Galvanic Isolation	-	-	-
Interface USB	4x USB 2.0	2x USB 2.0, 1x USB 3.0	2x USB 2.0
Interface IEEE1394	-	-	-
Interface LAN	Optional 10/100 BASE-T, 3x 10/100/1000 BASE-T, 1x WLAN	1x 10/100/1000 BASE-T, Optional WLAN	2x 10/100/1000 BASE-T, optional WLAN, 2x RJ45 PoE
Interface IO	4x Digital Input, 4x Digital Output	3x Digital Input, 3x Digital Output	4x Digital Input, 4x Digital Output
Mini PCIe	-	3x Mini PCIe, 1x half size Mini PCIe	2x Mini PCIe socket
Mini PCI	-	-	-
Camera	-	-	-
Video Input	-	-	ultraONE+ technology support 10M transmission distance (for PKBX5326)
Resolution	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Bluetooth	1x	Optional	Optional
eSATA	-	-	-
Sound	-	-	-
Audio	Line-Out, Mic-In	1x Line-Out, 1x Mic-In	1x Line-Out, 1x Mic-In
Headphone	-	-	-
SIM Card	2x	2x	2x micro SIM socket
GPS	1x U-blox NEO-M8N GPS	1x U-blox NEO-M8N	1x U-blox NEO-M8N
Mobile Communication 2G	Optional GSM+GPRS	-	-
Mobile Communication 3G	Optional HSDPA+UMTS	-	-
PCI	-	-	-
PCIe	Optional	3x Mini PCIe, 1x half size Mini-PCIe	2x mini PCIe
PCI/104	1x	-	-
Operating System	Windows XP, WES2009 / 7E, Linux Kernel 3.x	-	Windows 10 / 8 / 7, WES8 / WES7, Linux (by request)
Operating System Support		Windows 10 / 8 Prof. / 7, WES8 / WES7, Tizen IVI, Fedora, Linux Kernel 3.x	-
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	8 to 60VDC	9 to 36VDC	-
Output Voltage Nominal	-	12VDC	12VDC / 2A
Output Voltage Min/Max	-	-	-
Input Current	-	-	total 30W
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	-30°C to 50°C	-20°C to 50°C	-40°C to 60°C (w/ PoE)
Extended Operating Temperature	-30°C to 60°C	-30°C to 70°C	-40°C to 70°C (w/o PoE)
Storage Temperature	-40°C to 80°C	-35°C to 85°C	-45°C to 85°C
Relative Humidity	10% to 90%, non-condensing	10% to 90%, non-condensing	95%, 48 hrs
Protection	IP65 (optional through IP65 protection kit)	-	Vibration & Shock
Certification	CE, e13 (Vehicle), EN50155 (Railway), FCC	CE, e13 (Vehicle), FCC	CE, e13 (Vehicle), MIL-STD-810G, Class A FCC
Dimensions	260 x 176 x 50 mm	180 x 180 x 50mm (W x D x H)	185 x 150,9 x 45 mm (W x D x H)
Weight	2.19kg	1.7kg	1,3 kg
Material	Aluminum	Aluminum	-
Typ. Application	Automotive	Automotive	Automotive, Mobile

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Vehicle Telematics Computer 6201



Vehicle Telematics Computer 1010



Vehicle Telematics Computer 1011

Artikel-Nr. PKBX5394
VTC 6201, Intel Atom D510 1.66GHz, 3x Giga
LAN, 2x SIM

Artikel-Nr. PKBX5394-1
VTC 6201-M, Intel Atom D510 Dual Core 1.66GHz,
2x 10/100Mbps with M12 connector, 2x SIM

Artikel-Nr. PKBX5320
VTC 1010 w/ Intel Atom E3827, 1.75GHz, 2GB
DDR3L, GPS, VGA, DP, 3x COM

Artikel-Nr. PKBX5320-1
VTC 1010-IVI w/ Intel Atom E3827, 1.75GHz,
TIZEN OS, 2GB DDR3L, GPS, VGA, DP, 3x COM,
80GB SSD, WIFI/BT Module

Artikel-Nr. PKBX5325
VTC 1011-C2K, w/ Intel Atom E3825, Dual Core
1.33GHz, 1x VGA, 1x HDMI, 3x COM, 1x CAN, 2x
PoE

Artikel-Nr. PKBX5326
VTC 1011-C2VK, w/ Intel Atom E3825, Dual Core
1.33GHz, 1x VGA, 1x HDMI, 3x COM, 1x CAN, 2x
PoE, 1x video output for ultraONE+ technology

Artikel-Nr. DMXX1087
VMD 2003-BS, 8,0" w/ resistive TouchScreen,
800cd/m², SVGA, 4x CVBS, 1x USB, 1x video
input for ultraONE+ technology

Artikel-Nr. DMXX1091
VMD 3110-4PH, 10,4" w/ Projected capacitive
TouchScreen, 1.200cd/m², XGA, 4x CVBS, USB,
COM, ultraONE+ video-in

Artikel-Nr. BPLK1138
ultraOne+ All-in-One Cable 5 Meter, D-SUB HD 9
connector, USB, Power, Video & Audio

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Selection Guide Automotive Box-PC



Vehicle Telematics Computer 1911-IPK

Vehicle Telematics Computer 1910-S

Automotive Box-PC 300 ARM Cortex A9, 1x LAN

Cooling System	Fanless	Fanless	Fanless
Mounting System	Wall Mount	Wall Mount	Wall Mount
CPU	Intel Atom® processor Bay Trail E3815, 1.46GHz	Intel Atom® processor Bay Trail E3815, 1.46GHz	ARM Cortex-A9 CPU 1GHz NXP iMX6 Single / Dual / Quad Core
CPU Socket	-	-	-
Chipset	-	-	-
BIOS	-	-	-
Watchdog Timer	-	-	-
Controller	-	-	-
Basic Equipment	2GB	2GB	1 GB (Single / Dual) or 2 GB (Quad)
Maximum Equipment	8GB	8GB	4 GB
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	DDR3L SO-DIMM	DDR3L SO-DIMM	DDR3
Compact Flash	-	-	x
SD	-	-	1x microSD interface
HDD	-	-	-
HD SATA	1x mSATA; 1x SATA DOM or 1x 2,5" SSD	1x SATA DOM, 1x mSATA	1x mSATA interface for SSD
HD PATA	-	-	-
PCMCIA	-	-	-
Removeable Storage	-	-	-
Graphic Interface	1x VGA/CRT, optional HDMI	1x VGA/CRT	1x HDMI
Interface COM	1x 1x DB15 for RS485 (TX/RX) , 1x 2x DB15 for 2x RS232 (TX/RX)	1x 1x DB15 for 2x RS232 (TX/RX), 1x 1x RS485 (TX/RX) only for PKBX5336	1x RS232, 1x RS485
CAN	1x CAN 2.0B	1x CAN 2.0B	2x CAN bus (isolated)
CAN2	-	-	-
Galvanic Isolation	-	-	-
Interface USB	1x USB 2.0	1x USB 2.0, 1x USB 3.0	2x Host (HS) / 1x OTG (HS) USB
Interface IEEE1394	-	-	-
Interface LAN	1x M12 (A-code) 10/100/1000 BASE-T, WLAN	1x 10/100/1000 BASE-T, WLAN	1x RJ45 10/100/1000 BASE-T, Optional 802.11 b/g/n/ac WLAN
Interface IO	3x Digital Input, 3x Digital Output	3x Digital Input, 3x Digital Output	Isolated GPIO GPIO, 9x Digital Input, 3x Digital Output
Mini PCIe	2x	2x Mini PCIe	-
Mini PCI	-	-	-
Camera	-	-	-
Video Input	-	-	-
Resolution	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	-
Codec	-	-	-
Bluetooth	-	-	Built-in 4.2/BLE
eSATA	-	-	-
Sound	-	-	-
Audio	1x Line-out / MIC-In	1x Line-out / MIC-In	Optional MIC In
Headphone	-	-	Optional
SIM Card	2x SIM socket (micro type) with cover	2x SIM socket (micro type) with cover	Dual SIM card Slot
GPS	1x u-blox NEO-M8N GPS module	1x u-blox NEO-M8N GPS module	u-blox UBX-G7020 (or UBX-M8030) module
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	Optional HSDPA+UMTS+WCDMA
PCI	-	-	-
PCIe	2x full size Mini PCIe	2x Mini PCIe	-
PCI/104	-	-	-
Operating System	Windows 10 / 8 / 7, WES7 / WES8, Linux (by request)	Windows 10 / 8 / 7, WES7 / WES8, Linux (by request)	Linux 3.10/3.14 (Yocto 1.6/1.8) / Android 4.2.2/4.4/6.x
Operating System Support	-	-	-
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 36VDC	9 to 36VDC	9 to 36VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	-40°C to 70°C	-40°C to 70°C	-20 °C to 70 °C
Extended Operating Temperature	-	-	-
Storage Temperature	-40°C to 85°C	-40°C to 85°C	-
Relative Humidity	IEC60068-2-3, damp heat steady state test, 40°C, 95%, 48Hrs	IEC60068-2-3, damp heat steady state test, 40°C, 95%, 48Hrs	-
Protection	IP67	-	Optional Overvoltage protection
Certification	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), Class B FCC	CE, e13 (Vehicle), Class A FCC
Dimensions	185 x 167 x 56,5 mm (W x D x H)	130 x 120 x 32 mm (W x D x H)	138 x 204 x 48 mm (L x W x H)
Weight	1,1kg	0,6kg	tbd.
Material	-	-	-
Typ. Application	Automotive	Automotive	Industrial, Automotive

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Vehicle Telematics Computer 1911-IPK



Vehicle Telematics Computer 1910-S



Automotive Box-PC 300 ARM Cortex A9, 1x LAN

	Artikel-Nr. PKBX5337 VTC 1911-IPK, w/ Intel Atom Bay Trail E3815 1.46GHz, 1x VGA, 2x RS232, 1x RS485, 1x CAN, 2x GB LAN, IP67	Artikel-Nr. PKBX5336 VTC 1910-S, w/ Intel Atom Bay Trail E3815 1.46GHz, 1x VGA, 2x RS232, 1x RS485, 1x CAN, 1x GB LAN, 1x Audio	Artikel-Nr. PKBA2010 Automotive Box-PC 300, ARM Cortex A9 iMX6, 1GHz Quad Core, 2GB DDR3, 4GB NAND, LAN, GPS, Yocto, CAN, 1x LAN, WiFi/BT Artikel-Nr. PKBA2010-1 Automotive Box-PC 300, ARM Cortex A9 iMX6, 1GHz Quad Core, 2GB DDR3, 4GB NAND, LAN, GPS, Yocto, WiFi/BT, CAN, 1x LAN, Overvoltage Protection Artikel-Nr. PKBA2011 Automotive Box-PC 300, ARM Cortex A9 iMX6, 1GHz Quad Core, 2GB DDR3, 4GB NAND, LAN, GPS, Android, CAN, 1x LAN, WiFi/BT Artikel-Nr. PKBA2011-1 Automotive Box-PC 300, ARM Cortex A9 iMX6, 1GHz Quad Core, 2GB DDR3, 4GB NAND, LAN, GPS, Android, WiFi/BT, CAN, 1x LAN, Overvoltage Protection Artikel-Nr. PKBA2012 Automotive Box-PC 300, ARM Cortex A9 iMX6, 1GHz Dual Core, 1GB DDR3, 4GB NAND, LAN, GPS, Yocto, CAN, 1x LAN, WiFi/BT
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Automotive Box-PC 300 ARM Cortex A9, 4x LAN



Automotive Box-PC 100/120 ARM Cortex A7



Vehicle Telematics Computer 210

Cooling System	Fanless	Fanless	Fanless
Mounting System	Wall Mount	Wall Mount	Wall Mount
CPU	ARM Cortex-A9 CPU 1GHz NXP iMX6 Single / Dual / Quad Core	ARM Cortex-A7 CPU 500MHz NXP iMX6UL (Ultra Lite) Quad Core	Rockchip RK3328 Quad-core ARM® Cortex-A53 processor
CPU Socket	-	-	-
Chipset	-	-	-
BIOS	-	-	-
Watchdog Timer	-	-	SDK for power/reset/WDT/IGN/UVTP threshold/GNSS on/off control
Controller	-	-	SDK for power/reset/WDT/IGN/UVTP threshold/GNSS on/off control
Basic Equipment	1 GB (Single / Dual) or 2 GB (Quad)	256 MB	4GB
Maximum Equipment	4 GB	512 MB	16GB
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	DDR3	DDR3	DDR4 2GB onboard (BOM option 4GB)
Compact Flash	x	x	-
SD	1x microSD interface	-	1 x Internal microSD slot
HDD	-	-	-
HD SATA	1x mSATA interface for SSD	-	-
HD PATA	-	-	-
PCMCIA	-	-	-
Removeable Storage	-	-	-
Graphic Interface	1x HDMI	-	1x VGA/CRT, 1x HDMI
Interface COM	1x RS232, 1x RS485	1x 1x RS232 (or RS485)	1x
CAN	2x CAN bus (isolated)	1x CAN bus	-
CAN2	-	-	-
Galvanic Isolation	-	-	-
Interface USB	2x Host (HS) / 1x OTG (HS) USB	2x Host (HS) / 1x OTG (HS) USB	2x USB 2.0 Type A USB 2.0, 1x USB 3.0 USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	4x RJ45 10/100/1000 BASE-T, Optional 802.11 b/g/n/ac WLAN	1x RJ45 10/100 BASE-T, Optional 802.11 b/g/n WLAN	1x M.2 3042 Key B (USB 2.0, USB 3.0) 10/100/1000 BASE-T, 2x Antenna holes for WLAN WLAN, 2x RJ45 10/100/1000 fast Ethernet with LED PoE
Interface IO	Isolated GPIO GPIO, 9x Digital Input, 3x Digital Output	Isolated GPIO GPIO, 9x Digital Input, 3x Digital Output	GPIO
Mini PCIe	-	-	-
Mini PCI	-	-	-
Camera	-	-	-
Video Input	-	-	-
Resolution	-	-	-
Encoding	-	-	-
Decoding/Playback	-	-	optional dead reckoning function
Codec	-	-	-
Bluetooth	Built-in 4.2/BLE	4.0 / BLE (optional)	-
eSATA	-	-	-
Sound	-	-	-
Audio	Optional MIC In	Optional MIC In	-
Headphone	Optional	Optional	-
SIM Card	Dual SIM card Slot	SIM card slot single	1x internal Micro SIM
GPS	ublox UBX-G7020 (or UBX-M8030) module	ublox UBX-G7020 (or UBX-M8030) module	1x Default u-blox NEO-M9N GNSS module
Mobile Communication 2G	-	-	-
Mobile Communication 3G	Optional HSDPA+UMTS+WCDMA	HSDPA+UMTS+WCDMA	-
PCI	-	-	-
PCIe	-	-	-
PCI/104	-	-	-
Operating System	Linux 3.10/3.14 (Yocto 1.6/1.8) / Android 4.2.2/4.4/6.x	Linux 3.14 (Yocto 1.8)	LINUX
Operating System Support	-	-	-
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 36VDC	9 to 36VDC	9 to 36VDC
Output Voltage Nominal	-	-	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	-
Input Power	-	-	-
Battery	-	-	-
Operating Temperature	-20 °C to 70 °C	-20 °C to 70 °C	-20°C to 70°C
Extended Operating Temperature	-	-	-
Storage Temperature	-	-	-40°C to 85°C
Relative Humidity	-	-	90% (non-condensing)
Protection	Overvoltage protection	Optional Overvoltage protection	Vibration & Shock
Certification	CE, e13 (Vehicle), Class A FCC	CE, Class A FCC	CE, e13 (Vehicle), Class A FCC
Dimensions	138 x 204 x 48 mm (L x W x H)	125 x 147 x 41 mm (L x W x H)	130 x 100 x 31 mm (W x D x H)
Weight	tbd.	tbd.	0,5 kg
Material	-	-	-
Typ. Application	Industrial, Automotive	Industrial, Automotive	Automotive, Mobile, Digital Signage

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Automotive Box-PC 300 ARM Cortex A9, 4x LAN



Automotive Box-PC 100/120 ARM Cortex A7



Vehicle Telematics Computer 210

Artikel-Nr. PKBA2010-2

Automotive Box-PC 300, ARM Cortex A9 iMX6,
1GHz QuadCore, 2GB DDR3, 4GB NAND, LAN,
GPS, Yocto, WiFi/BT, CAN, 4x LAN, Overvoltage
Protection

Artikel-Nr. PKBA2011-2

Automotive Box-PC 300, ARM Cortex A9 iMX6,
1GHz QuadCore, 2GB DDR3, 4GB NAND, LAN,
GPS, Android, WiFi/BT, CAN, 4x LAN, Overvoltage
Protection

Artikel-Nr. PKBA2012-2

Automotive Box-PC 300, ARM Cortex A9 iMX6,
1GHz DualCore, 1GB DDR3, 4GB NAND, LAN,
GPS, Yocto, WiFi/BT, CAN, 4x LAN, Overvoltage
Protection

Artikel-Nr. PKBA2013-2

Automotive Box-PC 300, ARM Cortex A9 iMX6,
1GHz DualCore, 1GB DDR3, 4GB NAND, LAN,
GPS, Android, WiFi/BT, CAN, 4x LAN, Overvoltage
Protection

Artikel-Nr. PKBA2000

Automotive Box-PC 100, ARM Cortex A7 iMX6UL,
500MHz Quad Core , 256MB DDR3, 512MB
NAND, LAN, 3G Q69, GPS, CAN, Yocto

Artikel-Nr. PKBA2000-1

Automotive Box-PC 100, ARM Cortex A7 iMX6UL,
500MHz Quad Core , 256MB DDR3, 512MB
NAND, LAN, 3G Q69, GPS, Yocto, CAN,
Overvoltage Protection

Artikel-Nr. PKBA2001

Automotive Box-PC 100, ARM Cortex A7 iMX6UL,
500MHz Quad Core , 256MB DDR3, 512MB
NAND, LAN, 3G Q69, GPS, Yocto, CAN, WiFi/BT

Artikel-Nr. PKBA2001-1

Automotive Box-PC 100, ARM Cortex A7 iMX6UL,
500MHz Quad Core, 256MB DDR3, 512MB
NAND, LAN, 3G Q69, GPS, Yocto, WiFi/BT, CAN,
Overvoltage Protection

Artikel-Nr. PKBA2002

Automotive Box-PC 120, ARM Cortex A7 iMX6UL,
500MHz Quad Core, 256MB DDR3, 512MB
NAND, LAN, 3G Q69, GPS, Yocto, CAN, w/
Battery Kit

Artikel-Nr. PKBX5345

VTC210, Rockchip, RK3328, ARM
QuadCoreCortexA53, 1.5GH, DDR4 2GB,
HDMI, 2xLAN, USB, RS232, U-blox GPS Module

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Selection Guide Automotive Box-PC



Advanced Telematics Computer 3530 (Fanless)



Advanced Telematics Computer 3200 (Fanless)



MVS 5600-IP Modular Vehicle System IP65

Cooling System	Fanless	Fanless	Fanless
Mounting System	Wall Mount	Wall Mount	Wall Mount
CPU	3x NVIDIA® 64-bit Carmel (Dual-Core) processor, 1.900 MHz	NVIDIA® Jetson TX2 SOM up to 1.3 TFOPS compute: NVIDIA® Denver 2 Dual Core & ARM® A57 Quad Core	6th gen Intel Core i7-6600U, 3.4GHz or i3-6100U, 2.3GHz, Skylake, Dual Core
CPU Socket	-	-	-
Chipset	-	-	-
BIOS	-	-	-
Watchdog Timer	-	-	-
Controller	-	-	-
Basic Equipment	8GB	8GB	2GB
Maximum Equipment	-	-	8GB
DRAM	-	-	-
SDRAM	-	-	-
DIMM / MemorySocket	128-bit LPDDR4, 1.600MHz	128-bit LPDDR4, 1.600MHz	DDR3L SO-DMIM
Compact Flash	-	-	-
SD	1x microSD	1x	-
HDD	-	-	2x 2,5" SATA 3.0 HDD / SSD
HD SATA	16GB eMMC 5.1	1x 2.5" SSD (15 mm height)	-
HD PATA	-	-	-
PCMCIA	-	-	-
Removeable Storage	-	-	-
Graphic Interface	384-Core Volta & 48-core Tensor integrated, 1.100MHz Graphics Adapter, 1x HDMI	256-Core Pascal integrated GPU @ 1.2GHz Graphics Adapter, 1x HDMI	1x VGA/CRT
Interface COM	2x RS232	2x RS232/422/485	2x RS232, 1x RS232, 2x RS485
CAN	2x	2x	1x CAN Bus 2.0B w/ isolation
CAN2	-	-	2x CAN Bus 2.0B (optional)
Galvanic Isolation	X	X	-
Interface USB	1x OTG micro USB, 2x USB 3.0	1x USB 2.0, 2x USB 3.0	2x USB 2.0, 1x USB 3.0
Interface IEEE1394	-	-	-
Interface LAN	1x for PKBX5925 / 2x for PKBX5926 10/100/1000 BASE-T, optional WLAN, 4x for PKBX5925 PoE	2x 10/100/1000 BASE-T, optional WLAN, 2x PoE	2x 10/100/1000 BASE-T, 2x WLAN
Interface IO	GPIO, 4x Digital Input, 4x Digital Output	GPIO, 4x Digital Input, 4x Digital Output	3-bit GPO & 3-bit GPI GPIO, 3x Digital Input, 3x Digital Output
Mini PCIe	1x	1x	Mini-Pcie socket: 3x full size, 1x half size
Mini PCI	-	-	-
Camera	4-Channel MIPI SerDes CAM (optional)	4-Channel MIPI SerDes CAM (optional)	-
Video Input	-	-	-
Resolution	720p30 / 1.080p60	720p30 / 1.080p60	Up to 2.560 x 1.600 @ 60Hz
Encoding	HEVC / H.265	H.264 / H.265	-
Decoding/Playback	-	H.264 / H.265	-
Codec	-	-	-
Bluetooth	-	-	-
eSATA	-	-	-
Sound	-	-	-
Audio	-	1x Mic-in, 1x Line-out	1x Mic-in, 1x Line-out
Headphone	-	-	-
SIM Card	2x Micro SIM slots	2x Micro SIM slots	1x SIM card socket (w/ lid) & 1x internal SIM card socket selectable
GPS	1x U-blox NEO-M8N GPS module	1x U-blox NEO-M8N GPS module	U-blox NEO-M8N
Mobile Communication 2G	-	-	-
Mobile Communication 3G	-	-	UMTS
PCI	-	-	-
PCIe	-	-	4x Mini-Pcie socket
PCI/104	-	-	-
Operating System	-	-	Windows 10 / 8 / 7, WES8 / 7, Linux kernel 3.X
Operating System Support	UBUNTU 18.04, NVIDIA® JetPack 4.5, MIPI SerDes CAM Driver, custom functions, V4L2	UBUNTU 18.04, NVIDIA® JetPack 4.4, MIPI SerDes Pack, custom-made SDK	-
Input Voltage Nominal	-	-	-
Input Voltage Min/Max	9 to 36VDC	9 to 36VDC	9 to 36VDC
Output Voltage Nominal	-	12VDC	-
Output Voltage Min/Max	-	-	-
Input Current	-	-	40W
Input Power	-	-	-
Battery	-	-	Optional internal 1.100mAh, Li-Polymer rechargeable battery
Operating Temperature	-30°C to 70°C	-30°C to 70°C	-30°C to 60°C
Extended Operating Temperature	-	-	-
Storage Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 80°C
Relative Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Protection	Vibration & Shock	Vibration & Shock	IP65, Vibration & Shock protection
Certification	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), MIL-STD-810G, Class A FCC
Dimensions	213 x 167 x 82,8 mm (W x D x H)	180 x 156 x 60 mm (W x D x H)	260 x 196 x 66,5 mm (W x D x H)
Weight	2,4 kg	2,4 kg	3,3 kg
Material	-	-	-
Typ. Application	Industrial, Automotive, Railway	Industrial, Automotive, Railway	Industrial, Automotive, Mobile, Military, Outdoor

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Advanced Telematics Computer 3530
(Fanless)



Advanced Telematics Computer 3200
(Fanless)



MVS 5600-IP Modular Vehicle System
IP65

	Artikel-Nr. PKBX5925 ATC 3530-IP7-4C, NVIDIA Xavier NX, w/ 8GB LPDDR4, 1x HDMI, 4x PoE GbE, 1x GbE, 16GB eMMC Artikel-Nr. PKBX5926 ATC 3530-IP7-4M, NVIDIA Xavier NX, w/ 8GB LPDDR4, 1x HDMI, 4x MIPI SerDes VBO, 2x GbE, 16GB eMMC Artikel-Nr. PKBX5927 ATC 3530-IP7-4C, NVIDIA Xavier NX, w/ 16GB LPDDR4 , 1x HDMI, 4x PoE GbE, 1x GbE, 16GB eMMC Artikel-Nr. PKBX5928 ATC 3530-IP7-4M, NVIDIA JetsonXavierNX/16GB LPDDR4, 1xHDMI/4xMIPI VBO/2xGbE/2xRS232/2xUSB3.0/16GB eMMC Artikel-Nr. VKFX1202 MIPI VBO SerDes CAM, 1.080p60, AR0234GSC, V-by-One HS, 15m Fakra cable, IP67	Artikel-Nr. PKBX5920 ATC 3200, NVIDIA Jetson TX2 SOM w/ 8GB DDR4, 1x HDMI, 2x PoE GbE, 32GB eMMC Artikel-Nr. PKBX5921 ATC 3200-4M, NVIDIA Jetson TX2 SOM w/ 8GB DDR4, 1x HDMI, 2x PoE GbE, 32GB eMMC, 4-ch MIPI SerDes Artikel-Nr. VKFX1200 MIPI SerDes CAM 2.3M(G), 1.080p60, AR0234 , with Enclosure + ISP + VBO, optional with 5 m / 15 m Fakra cable Artikel-Nr. VKFX1201 MIPI SerDes CAM 1M(G), 720p30, AR0144 , with Enclosure + ISP + VBO, optional with 5 m / 15 m / 25 m Fakra cable	Artikel-Nr. PKBX5586-1 MVS 5600-7IPK Modular Vehicle System IP65, Intel Core i3-6100U 2.3GHz, 2GB DDR3L, 2x GbE, 1x VGA Artikel-Nr. PKBX5586 MVS 5600-3IPK Modular Vehicle System IP65, Intel Core i7-6600U 3.4GHz, 2GB DDR3L, 2x GbE, 1x VGA
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MVS 5600 Modular Vehicle System



**MVS 2620-IP Modular Vehicle System
IP65**

Cooling System	Fanless	Fanless
Mounting System	Wall Mount	Wall Mount
CPU	6th generation Intel® Core dual core i7-6600U / i3-6100U	Intel Atom® x7-E3950 Apollo-lake 2.0GHz, Quad Core
CPU Socket	-	-
Chipset	-	-
BIOS	-	-
Watchdog Timer	-	-
Controller	-	-
Basic Equipment	2GB	4GB
Maximum Equipment	16GB	8GB
DRAM	-	-
SDRAM	-	-
DIMM / MemorySocket	2-channel 204-pin DDR3L SO-DIMM	DDR3L SO-DMIM
Compact Flash	-	-
SD	-	-
HDD	1x 2,5" SATA 3.0 HDD / SSD (removable & hot swappable), RAID 0, 1 supported	2x 2,5" SATA 3.0 HDD / SSD
HD SATA	-	-
HD PATA	-	-
PCMCIA	-	-
Removeable Storage	-	-
Graphic Interface	1x VGA/CRT, 1x HDMI	1x VGA/CRT
Interface COM	1x DB-9 RS-232, 1x DB-9 RS-232, 1x DB-9 RS-232/422/485	2x RS232, 1x RS232, 2x RS485
CAN	1x CAN Bus 2.0B (on board)	1x CAN Bus 2.0B w/ isolation
CAN2	1x CAN Bus 2.0B (optional)	2x CAN Bus 2.0B (optional)
Galvanic Isolation	-	-
Interface USB	4x USB 3.0	3x USB 2.0
Interface IEEE1394	-	-
Interface LAN	2x 10/100/1000 BASE-T, WLAN	2x 10/100/1000 BASE-T, 2x WLAN
Interface IO	8x GPIO, 4x Digital Input, 4x Digital Output	3-bit GPO & 3-bit GPI GPIO, 3x Digital Input, 3x Digital Output
Mini PCIe	Mini-Pcie socket: 2x full size, 1x half size	Mini-Pcie socket: 3x full size, 1x half size
Mini PCI	-	-
Camera	-	-
Video Input	-	-
Resolution	Up to 2.560 x 1.600 @60Hz	Up to 2.560 x 1.600 @ 60Hz
Encoding	-	-
Decoding/Playback	-	-
Codec	-	-
Bluetooth	-	-
eSATA	-	-
Sound	-	-
Audio	4x phone jacks 3,5 mm (2x Mic-in / 2x Line-out)	1x Mic-in, 1x Line-out
Headphone	-	-
SIM Card	1x externally accessible SIM card socket	1x SIM card socket (w/ lid) & 1x internal SIM card socket selectable
GPS	U-blox NEO-M8N	U-blox NEO-M8N
Mobile Communication 2G	-	-
Mobile Communication 3G	-	UMTS
PCI	-	-
PCIe	3x Mini-PCIe	4x Mini-PCIe socket
PCI/104	-	-
Operating System	Windows 10 / Windows 8 / Windows 7 / WES8 / WES7 / Linux kernel 3.X	Windows 10 (64-bit only), Linux YOCTO
Operating System Support	-	-
Input Voltage Nominal	-	-
Input Voltage Min/Max	9 to 36VDC	9 to 36VDC
Output Voltage Nominal	-	-
Output Voltage Min/Max	-	-
Input Current	34W	-
Input Power	-	-
Battery	Optional internal 1100mAh, Li-Polymer rechargeable battery	-
Operating Temperature	-30°C to 60°C	-30°C to 70°C
Extended Operating Temperature	-	-
Storage Temperature	-40°C to 80°C	-40°C to 80°C
Relative Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Protection	Vibration & Shock protection	IP65, Vibration & Shock protection
Certification	CE, e13 (Vehicle), Class A FCC	CE, e13 (Vehicle), MIL-STD-810G, Class A FCC
Dimensions	260 x 196 x 66,5 mm (W x D x H)	260 x 196 x 50 mm (W x D x H)
Weight	2,1 kg	2,88 kg
Material	-	-
Typ. Application	Industrial, Automotive, Mobile, Military, Outdoor	Industrial, Automotive, Mobile, Military, Outdoor

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Selection Guide Automotive Box-PC



MVS 5600 Modular Vehicle System



MVS 2620-IP Modular Vehicle System
IP65

	Artikel-Nr. PKBX5597 MVS 5600-7BU Modular Vehicle System, 6th Gen. IntelCore i7-6600U, 2.6GHz, 2GB DDR3L, 2x GbE, 1x VGA/HDMI	Artikel-Nr. PKBX5585 MVS 2620-IP Modular Vehicle System IP65, Intel Atom x7-E3950 2.0GHz, QuadCore, 2x GbE, 1x VGA
	Artikel-Nr. PKBX5597-1 MVS 5600-3BU Modular Vehicle System, 6th Gen. IntelCore i3-6100U, 2.3GHz, 2GB DDR3L, 2x GbE, 1x VGA/HDMI	

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