

# DELTA COMPONENTS - Automotive Box-PC's

DeltaCar-PC, DeltaMobile-PC, DeltaNav-PC



The DeltaCar-PC is an open system platform with scalable system hardware for navigation, communication, office & data, vehicle adaptation and multimedia applications. The PC-unit comprises the size of a DIN-Radio housing and shows the e1 registration. Furthermore the DeltaCar-PC holds the protection class IP20. The visualisation of the DeltaCar-PC can be implemented by a DeltaTerminal (see page 2) or a DeltaVarioMon (see page 3-4) – both special solutions of a LCD-TFT monitor.  
 The DeltaMobile-PC IV is applicable for vehicles and other professional solutions. Since it has been engineered for rugged ambient conditions, it can be used for the testing of vehicles, development issues and for the professional use in vehicles.  
 The DeltaNav-PC is a Mobile-PC with an integrated LCD-TFT display for professional automotive applications. The highly integrated computer was developed for dash board installation for general Office - as well as measurement-tasks in the vehicle development. The system allows navigational functions by the integrated GPS receiver as well as multimedia tasks.



Type	DeltaCar-PC Type Berlin	DeltaCar-PC Type Munich	DeltaCar-PC Type Stuttgart	DeltaMobile PC IV	DeltaNav-PC 8,4"	DeltaNav-PC 10,4"
<b>Features</b>						
<b>CPU</b>	VIA Eden/C3 / Intel Celeron / Intel Pentium 3	VIA Eden/C3 / Intel Celeron / Intel Pentium 3	VIA Eden/C3 / Intel Celeron / Intel Pentium 3	VIA Eden/C3 / Intel Celeron / Intel Pentium 3	VIA C7-M Processor Ultra Low Power Consumption	VIA Eden/C3 / Intel Celeron / Intel Pentium 3
<b>Clock (MHz)</b>	400MHz - 1,0GHz 400/ 650 MHz 933MHz	400MHz - 1,0GHz 400/ 650 MHz 933MHz	400MHz - 1,0GHz 400/ 650 MHz 933MHz	400MHz - 1,0GHz 400/ 650 MHz 933MHz	1GHz	400MHz - 1,0GHz 400/ 650 MHz 933MHz
<b>Memory (MB)</b>	32 / 64 / 128 / 256 / 512MB	32 / 64 / 128 / 256 / 512MB	32 / 64 / 128 / 256 / 512MB	32 / 64 / 128 / 256 / 512MB	512MB / 1GB	32 / 64 / 128 / 256 / 512MB
<b>Harddisk</b>	CompactFlash-Disk/ 2,5" standard or automotive/ 2,5" IDE-Flash-Disk	CompactFlash-Disk/ 2,5" standard or automotive/ 2,5" IDE-Flash-Disk	CompactFlash-Disk/ 2,5" standard or automotive/ 2,5" IDE-Flash-Disk	CompactFlash-Disk/ 2,5" standard or automotive/ 2,5" IDE-Flash-Disk	2,5" Harddisk 40/60/80/100GB	CompactFlash-Disk/ 2,5" standard or automotive/ 2,5" IDE-Flash-Disk
<b>Optical Drive</b>	external device	external device	external device	external device		external device
<b>Video Interfaces</b>	1x VGA/CRT & 1x LVDS	1x VGA/CRT & 1x LVDS	1x VGA/CRT & 1x LVDS	1x VGA/CRT		1x VGA/CRT
<b>TouchScreen</b>	yes (DeltaTerminal)	yes (DeltaTerminal)	yes (DeltaTerminal)		yes	yes
<b>Resolution (mm)</b>					800 x 600	1.024 x 768
<b>Keyboard, Mouse</b>	1x PS/2	1x PS/2	2x PS/2	1x PS/2	1x USB	1x PS/2
<b>Serial Interface</b>	4x RS-232D extern	4x RS-232D extern	2x RS-232C intern	1x RS-232 ( n/a with GSM/GPRS) 1x RS-232 for GPS receiver		1x RS-232 ( n/a with GSM/GPRS) 1x RS-232 for GPS receiver
<b>Parallel Interface</b>	1x LPT	1x LPT	1x LPT	n/a		n/a
<b>USB</b>	2x V1.1	2x V1.1	3x V2.0 / 1x V1.1	3x V2.0 / 1x V1.1	3x USB2.0 Port A	3x V2.0 / 1x V1.1
<b>Firewire IEEE1394</b>	2x	2x	n/a	n/a	n/a	n/a
<b>IDE Master/ Slave</b>	1x	1x	1x	1x	n/a	1x
<b>TV-Input</b>	3x Video-In (Composite) / 1x Video-In (S-VHS)	3x Video-In (Composite) / 1x Video-In (S-VHS)				
<b>LAN Ports</b>	1x 10/ 100 Base-T	1x 10/ 100 Base-T	1x 10/ 100 Base-T	1x 10/ 100 Base-T	1x 10/ 100 Base-T	1x 10/ 100 Base-T
<b>Sound</b>	Line-In / Line-Out / Mic-In	Line-In / Line-Out / Mic-In	Line-In / Line-Out / Mic-In / SPDIF	Line-Out / Mic-In / 3,5mm jack	Line-Out / Mic-In / 2,5mm jack	Line-Out / Mic-In / 3,5mm audioconnector
<b>PC Card</b>	PCMCIA/ PC-Card 2x type II or 1x type III	PCMCIA/ PC-Card 2x type II or 1x type III	PCMCIA/ PC-Card 2x type II or 1x type III	PCMCIA/ PC-Card 2x type II or 1x type III	PCMCIA PC-Card type II 32 bit Card Bus	PCMCIA/ PC-Card 2x type II or 1x type III
<b>Power Input</b>	12V DC (10 - 16V DC)	12V DC (10 - 16V DC)	12V DC (10 - 16V DC)	12/24V DC (8-28V DC), locked LEMO - connector	16 VDC	12/24V DC (8-28V DC), locked LEMO - connector
<b>Expansion</b>			1x MiniPCI		1x VGA/Monitor	
<b>Conformity</b>	e1: Made in Germany	e1: Made in Germany	e1: Made in Germany	Made in Germany	FCC Class B, CE, TUV	Made in Germany
<b>Dimensions (mm)</b>	180,0 x 52,0 x 196,0	180,0 x 52,0 x 196,0	180,0 x 52,0 x 196,0	241,0 x 156,0 x 61,0	231 x 192 x 42	258,0 x 214,0 x 61,0
<b>Case</b>	aluminium housing in 1-DIN slot format	aluminium housing in 1-DIN slot format	aluminium housing in 1-DIN slot format	aluminium		aluminium
<b>Colour</b>	black	black	black	black	black	black
<b>Weight</b>	1,3Kg	1,3Kg	1,3Kg	1,8Kg	1,0Kg (ohne Akku)	1,8Kg
<b>Operating Temperature</b>	0°C ~ +50°C standard -20°C ~ +60°C	0°C ~ +50°C standard -20°C ~ +60°C	0°C ~ +50°C standard -20°C ~ +60°C	0°C ~ +60°C	0°C ~ +35°C	0°C ~ +60°C
<b>Storage Temperature</b>	-25°C ~ +85°C	-25°C ~ +85°C	-25°C ~ +85°C	-20°C ~ +70°C	-20°C ~ +75°C	-20°C ~ +70°C
<b>Operating Humidity</b>	10% ~ 95% relative humidity	10% ~ 95% relative humidity	10% ~ 95% relative humidity	10% ~ 95% relative humidity		10% ~ 95% relative humidity
<b>Verified Operating System</b>	WIN 2000/ XP/ XP embedded/ Linux/ QNX	WIN 2000/ XP/ XP embedded/ Linux/ QNX	WIN 2000/ XP/ XP embedded/ Linux/ QNX	WIN 2000/ XP/ XP embedded/ Linux/ Linux embedded/ / QNX		WIN 2000/ XP/ XP embedded/ Linux/ QNX
<b>Modules</b>	Radio tuner with RDS decoder Sound amplifier 4x 20W	Microcontroller Sound amplifier 4x 20W GPS receiver 12- or 16- channel (option)	Microcontroller Sound amplifier 4x 20W GPS receiver 12- or 16- channel (option)			
		GSM/GPRS module (option)	GSM/GPRS module (option)	GPS receiver 16-channel/ 4 pos. per second	GPS receiver (optional) or CMOS Camera 1.3M Pixel	GPS receiver 16-channel/ 4 pos. per second
	GSM/GPRS module dual- or triband for voice, data, fax (option)			GSM/GPRS communication module (option)		GSM/GPRS module (option)
	PC- real time clock	PC- real time clock	PC- real time clock			
	µC-real time clock for special tasks					
	Enhanced microcontroller					
	Vehicle ON/OFF & Powermanagement	Vehicle ON/OFF & Powermanagement	Vehicle ON/OFF & Powermanagement			
	Audio management controller ( AUX external, telefon, radio tuner, PC-sound)					
<b>Features</b>	<b>Vehicle Interfaces:</b>				Wireless LAN, Bluetooth	<b>Display:</b>
	1x Turn-/ Push-Button					10,4" / 260,0 mm Display
	2x CAN 2.0B					1024 x 768 Resolution
	2x K-Line					300 cd/m <sup>2</sup> Brightness
	7x Analog In					300:1 Contrast
	8x Digital In					
	8x Digital Out					
<b>Ordering Number</b>	PKKC1000	PKKC1010	PKKC1015	PKKC3020	PKHS1100	PKKC3000

Automotive Box-PC's