



BMC DR. SCHETTER

- **Dr. Schetter BMC** Datenblätter Car-PC
TREK-305R / -743 / -775 / -776
ARK-1370 / -1388 / -4180

TREK-Serie

- Komplett-PC mit Bildschirm
- Befestigungskits verfügbar
- Bedienung über TouchScreen



Model Name		TREK-305R	TREK-743	TREK-775	TREK-776
Processor		-	Onboard AMD LX800 500 MHz	Onboard Intel ULV Celeron M 600 MHz / LV Pentium M 1.1 GHz	
2nd Cache Memory (L2 cache)		-	128 KB	Celeron M 512k cache / Pentium M 1 MB cache	
OS		-	WinCE 5.0; Windows XP Embedded	Supports Windows 2000/XP; WinCE 5.0; Windows XP Embedded	
Memory	Size	-	Up to 1 GB DDR SDRAM (Win CE supports up to 512 MB DDR)	Up to 2 GB DDR SDRAM (Win CE supports up to 512 MB DDR)	
	Module Type	-	200-pin SODIMM x 1	184-pin DIMM x 2	
Storage		-	One internal CompactFlash type I/II socket for CF card	One IDE interface for one optional HDD or one optioanl CF slot for CF card	
Displays	Size/Type	5.7" TFT LED LCD	7" TFT LED LCD	10.4" TFT LCD	12.1" TFT LCD
	Max. Resolution	320 x 240	800 x 480	800 x 600	1024 x 768
	Max. Colors	256 K	262 K	256 K or above	
	Brightness (cd/m ²)	320	400	400	450
	Viewing Angle (degrees)	140/120	140/120	140/110	160/160
	Backlight MTBF	20000 hrs.	Min. 10,000 hrs.	50,000 hrs.	50,000 hrs.
VGA	Chipset	-	AMD LX800	Intel 855GME	
	VRAM	-	32 MB	64 MB (SMA)	
Touchscreen	Technology	4-wire Resistive	Analog Resistive	Analog Resistive	
	Control Port	SPI I/F	RS-232 (COM3)	USB	
Brightness Control		Software controllable	Brightness control buttons		
I/O Port		LVDS, T/S, SPK-out, 1 x hotkey	3 x USB v2.0, 2 x RS-232/422/485, 1 x CAN, 4 x DI/DO	2 x RS-232 COM1, COM2 2 x RS-232/422/485 (COM3, COM4) 2 x USB v2.0, 1 x PS/2 KB, 1 x PS/2 mouse	
Expansion		-	One Mini PCI Type III A/B slot		
		-	PCMCIA Type II x 2 / III x 1		
Network (LAN)		-	10/100 Mbps Ethernet		
GPS		-	Option	Option (COM3)	
Power		3.3 V and 5 V	9 ~ 36 V _{DC}	9 ~ 58 V _{DC}	
		-	-	AC-to-DC adapter (optional)	
Operating Temperature		-20 ~ 70° C (-4 ~ 158° F)	-20 ~ 60° C (-4 ~ 140° F)	Oper. 0 ~ 40° C (32 ~ 104° F) Stor. -20 ~ 60° C (-4 ~ 140° F) (for wider temperature range use industrial grade & wide temperature CF or HDD)	Oper. 0 ~ 40° C (32 ~ 104° F) Stor. -30 ~ 60° C (-22 ~ 140° F) (for wider temperature range use industrial grade & wide temperature CF or HDD)
Certifications		CE, FCC, E13, CNS	UL, CE, FCC Class B, CCC, CSA	UL, CE, FCC Class B, CSA	
Dimensions (W x H x D)		168.55 x 128.05 x 35.6 (6.64" x 5.04" x 1.4")	255 x 160 x 50 mm (10.04" x 6.30" x 1.97")	310 x 255 x 80 mm (12.20" x 10.04" x 3.15")	310 x 255 x 90 mm (12.20" x 10.04" x 3.54")
Weight		0.4 kg (0.8 lbs)	1.7 kg (3.7 lbs)	3.8 kg (8.38 lbs)	4.8 kg (10.58 lbs)

ARK-1370

- Minimaler Stromverbrauch
- erweiterter Temperaturbereich von -40 ... 60°C



Features

- Fanless, ultra compact embedded box IPC
- Built-in AMD® Geode™ LX800, 500 MHz CPU
- Ultra Low power consumption solution
- Wide range power input 9 ~ 32V and supports min 6V cold cracking
- Comprehensive display, communication and connectivity
- Ultra compact size, VESA mounted, robust construction with fanless operation
- Windows® CE .NET & Windows® XP Embedded ready solution
- IP40

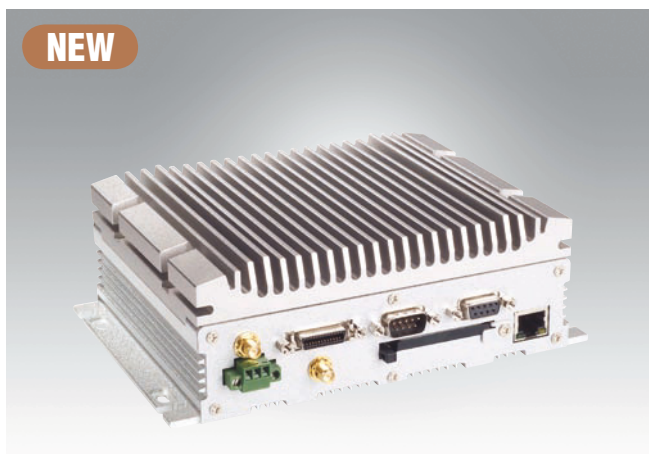


Specifications

Processor System	CPU	AMD Geode LX800
	Max. Speed	500 MHz
	Front Side Bus	400 MHz FSB
	System Chipset	AMD Geode CS5536
	BIOS	AWARD 4 Mbit, FWH
Memory	Technology	DDR 333/400 MHz
	Max. Capacity	1 GB
	Socket	1 x 200-pin SODIMM
Graphics	Chipset	Built-in AMD® Geode™ LX800 processor
	Interface	CRT interface Single 18-bit LVDS interface
Ethernet	LAN	10/100 Mbps Ethernet controller, Supports Wake on LAN
Audio	Amplifier	Output 2.2 W Amplifier
	Interface	1 x D-sub 15-pin connector, Line-in, Spkr-out, Mic-in
I/O Interface	Serial Ports	2 x RS-232/422/485 ports by BIOS selectable
	USB Interface	4 x USB ports, USB 2.0 Compliant
	Keyboard/Mouse	1 x PS/2 port, Supports PS/2 Mouse and Keyboard
Other	Watchdog Timer	255 level timer interval, setup by software
Expansion	PC Card	1 Slot PC Card, Supports CardBus (Card-32) and 16-bit (PCMCIA 2.1/JEIDA4.2) cards 5 V and 3.3 V working power
Storage	HDD	-
	SSD	Supports CompactFlash socket for type I/II CompactFlash disk
Software Support	Microsoft Windows	XP Professional, 2000, XP Embedded, CE .NET 6.0
Power Requirement	Power Type	AT/ATX
	Power Input Voltage	9 V _{DC} ~ 32 V _{DC}
	Minimum Power Input	9 V @ 3 A, 12 V @ 2.4 A, 19 V @ 1.5 A, 35 V @ 0.8 A
	Power Adapter	AC to DC, DC19 V/3.42 A, 65 W
Power Consumption	Typical	9.2 W
	Max	10.7 W
Mechanical	Construction	Aluminum housing
	Mounting	DIN-rail mounting; Desk/wall-mounting; VESA mounting
	Dimensions (W x H x D)	189 x 41 x 130.6 mm (7.44" x 1.61" x 5.14")
	Weight	1.15 kg (2.53 lb)
Environment	Operating Temperature	-40 ~ 60° C (-40 ~ 140° F)
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)
	Relative Humidity	95% @ 40° C (non-condensing)
	Vibration During Operation	With CompactFlash disk: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1hr/axis
	Shock During Operation	With CompactFlash disk: 50 Grms, IEC 60068-2-27, half sine, 11 ms duration
	EMC	CE/FCC Class A, CCC, BSMI
	Safety Certifications	UL, CCC, BSMI
	Vehicle Certification	ISO-7637-2

ARK-1388

- Ultra-kompakter Car-PC
- Drahtlose Kommunikation eingebaut



Features

- Fanless, ultra compact embedded box IPC
- Built-in Intel® Core™ 2 Duo ULV U7500 1.06 GHz / Celeron® M ULV 423 1.06 GHz CPU
- Startup and shutdown linked to car battery and ignition status
- ARK-1388 works with both 12-volt and 24-volt systems
- Optional built in WLAN/GPRS/EDGE/UMTS/HSDPA module
- Supports 50-channel GPS receiver
- Amplifier audio supports stereo 6W
- Supports VGA, LVDS dual independent display
- ISO-7637-2
- IP40



Specifications

Processor System	CPU	Intel Core 2 Duo ULV	Intel Celeron M ULV
	Max. Speed	U7500 (1.06 GHz)	423 (1.06 GHz)
	Front Side Bus	533 MHz FSB	533 MHz FSB
	System Chipset	945GM + ICH7-M	
	BIOS	AWARD 4 Mbit, FWH	
Memory	Technology	DDR2 533/667 MHz (945GM)	
	Max. Capacity	2 GB	
	Socket	1 x 200-pin SODIMM	
Graphics	Chipset	Integrated graphics built in to Intel 945GM, Intel 3.5 Generation Integrated Graphics Engine	
	Interface	CRT interface 36-bit LVDS interface	
Ethernet	LAN	10/100 Mbps Ethernet controller, Supports Wake on LAN	
Audio	Amplifier	Output 6 W Amplifier stereo	
	Interface	Spkr-out (L&R), Mic-in, RCA connector	
I/O Interface	Serial Ports	1 x RS-232 port, 3 x RS-232/422/485 ports selectable by jumper and RS-485 support Auto flow control	
	USB Interface	4 x USB ports, USB 2.0 Compliant	
Communication	Wireless LAN	802.11b/g WLAN miniPCI module (optional)	
	GPS	Built-in u-blox LEA 5 GPS receiver, supports 50 channels	
	GPRS/EDGE/HSDPA	Wavecom Q2686, supports GSM/GPRS 850/900/1800/1900 MHz (optional);	
		Wavecom Q2687, supports GSM/GPRS/EDGE (optional); Siemens HC25, supports UMTS/HSDPA (optional)	
Other	Digital I/O	6 bit, 4 x digital input with isolation and 2 x digital output with relay	
	Thermal Alarm	Blue LED Lighting	
	Watchdog Timer	255 level timer interval, setup by software	
Expansion	Mini PCI	1 Slot Mini PCI	
Storage	HDD	-	
	SSD	Supports CompactFlash socket for type I/II CompactFlash disk	
Software Support	Microsoft Windows	VISTA, XP Professional, XP Embedded, 2000, CE .NET 6.0	
	Power Type	AT/ATX	
	Power Input Voltage	9 V _{DC} ~ 32 V _{DC} , minimum support: 6 V _{DC} , cold crank of ISO-7637-2	
	Minimum Power Input	9 V @ 5.11 A, 12 V @ 3.84 A, 19 V @ 2.42 A, 35 V @ 1.32 A	
Power Requirement	Power Adapter	AC to DC, DC19 V/3.42 A, 65 W	
	Typical	15.72 W (Intel ULV Core 2 Duo U7500 1.06 GHz)	
	Max	46 W (Intel ULV Core 2 Duo U7500 1.06 GHz)	
SW Power Monitor	Power Ignition On Control	Power on delay, default 10 secs	
	Power Ignition Off Control	Power off delay, default 60 secs	
		Power hard off delay, default 180 secs	
Mechanical	Construction	Aluminum housing	
	Mounting	DIN-rail mounting; Desk/wall-mounting; VESA mounting	
	Dimensions (W x H x D)	189 x 63.76 x 130.6mm (7.44" x 2.51" x 5.14")	
	Weight	1.9 kg (4.18 lb)	
Environment	Operating Temperature	Intel Celeron M ULV423 1.06 GHz: -20 ~ 60° C (-4 ~ 140° F) Intel Core 2 Duo U7500 1.06 GHz: -20 ~ 55° C (-4 ~ 131° F)	
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)	
	Relative Humidity	95% @ 40° C (non-condensing)	
	Vibration During Operation	With CompactFlash disk: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1hr/axis. / MIL-STD 514.5C-3	
	Shock During Operation	With CompactFlash disk: 50 Grms, IEC 60068-2-27, half sine, 11 ms duration. /MIL-STD 516.5	
	EMC	CE/FCC Class A, CCC, BSMI	
	Safety Certifications	UL, CCC, BSMI	
	Vehicle	ISO-7637-2	

ARK-4180

- Erweiterbar durch PC-104-Slot
- Erweiterter Temperaturbereich von -40 ... 75°C



Features

- Fanless, rugged, compact embedded box IPC
- Built-in Celeron® 1.0 GHz (512 KB L2 Cache)/600 MHz CPU
- Two serial ports and six USB 2.0 ports
- VGA, LAN, Audio, LPT and KB/MS ports
- Modularized and stackable design
- Supports 1 x PCI-104 expansion slot
- Supports -40 ~ 75° C operating temperature
- IP40



Specifications

Processor System	CPU	Intel Celeron M ULV	Intel Celeron M ULV
	Max. Speed	373 (1 GHz)	600 MHz
	Front Side Bus	400 MHz FSB	400 MHz FSB
	System Chipset	855GME	852GM
	BIOS	AWARD 4 Mbit, FWH	
Memory	Technology	DDR 333/400 MHz	
	Max. Capacity	1 GB	
	Socket	1 x 200-pin SODIMM	
Graphics	Chipset	Built-in Intel 855GME/852GM	
	Interface	CRT interface 36-bit LVDS (optional)	
Ethernet	LAN	10/100 Mbps Ethernet Controller	
Audio	Interface	Line-in, Line-out	
I/O Interface	Serial Ports	2 x RS-232	
	Parallel Port	1 x Parallel port, Compliant with IEEE1284	
	USB Interface	6 x USB ports, USB 2.0 Compliant	
	Keyboard/Mouse	1 x PS/2 port, Supports PS/2 Mouse and Keyboard	
Other	Watchdog Timer	255 level timer interval, setup by software	
Expansion	PC/104	PCI-104	
Storage	HDD	Optional	
	SSD	Supports CompactFlash socket for type I/II CompactFlash disk	
Software Support	Microsoft Windows	XP Professional, XP Embedded, CE .NET 6.0	
Power Requirement	Power Type	AT	
	Power Input Voltage	AT, +5 V ± 5%, +12 V ± 5% (Optional) (5 V only, 12 V optional for PC104 add on card and LCD inverter)	
	Minimum Power Input	+5 V @ 1.63 A	
	Power Adapter	5 V @ 7 A, 12 V @ 3 A, 65 W	
Power Consumption	Typical	10.65 W (Intel ULV Celeron M 1 GHz)	
	Max	12.5 W (Intel ULV Celeron M 1 GHz)	
Mechanical	Construction	Aluminum housing	
	Mounting	DIN-rail mounting; Desk/wall-mounting; VESA mounting	
	Dimensions (W x H x D)	164 mm x 49.2 mm x 170 mm (6.46" x 1.94" x 6.69")	
	Weight	2 kg (4.4 lb)	
Environment	Operating Temperature	-40 ~ 75° C (-40 ~ 167° F)	
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)	
	Relative Humidity	95% @ 40° C (non-condensing)	
	Vibration During Operation	5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis.	
	Shock During Operation	50 Grms, IEC 60068-2-27, half sine, 11 ms duration	
	EMC	CE/FCC Class A, CCC, BSMI	
	Safety Certifications	UL, CCC, BSMI	



► **Zentrale**

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