



[Zoom in Picture](#)

■ **Features**

- Intel Celeron 650MHz ULV fanless
- 2 x LAN / 2 x USB 1.1
- 2 x RS232, 1 x LPT
- Compact Flash Slot
- Space for 2,5 HDD
- WLAN miniPCI Module IEEE 802.11b/g
- Power Input 12-24V DC, max 20W
- IP50 Aluminium Case
- e1 certified for in-vehicle-use
- Dimensions 148 x 203 x 55 mm³
- based on VS-2630 Board

VS-EmRunner H plus e1

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■ **Overview**

Targeting automotive applications the EmRunner H plus e1 has been approved by Kraftfahrt-Bundesamt with e1 certification. This CarPC has been designed for telematic and map-navigation applications, offering high shock resistance and low power consumption of max 20W from 12-24V sources.

Combined with GPS position engine and GPRS module it can be used for tracking and controlling truck operation and routing. Actual position and operating conditions are known for every vehicle at every time. Firmware updates and upload of operating data can be done using Wireless LAN when the vehicle returns to base location.

■ **Chassis**

Construction	full size Aluminium
Cooling system	Passive Heatsink, fanless
LED indicator	Power on/off in front, HDD, LAN
Expansion slot	1 x MiniPCI with optional WLAN Modul IEEE 802.11g
Dimensions	148 x 203 x 55mm ³
Power switch	connector side

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■ **Hardware**

Processor	Intel Celeron 650MHz ULV
Front side BUS	100, 133MHz
BIOS	AMI Flash BIOS
Chipset	VIA VT 8606, VT 82C686B

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■ **Memory**

Memory type	256MB SoDIMM. Optional up to 512MB
Memory socket	one 144-pin SoDIMM socket

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■ **Video**

VGA controller	embedded in VT8606 chipset with 2MB up to 32MB shared memory
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BUS	PCI internal in chipset
Video RAM	with 2MB up to 32MB shared memory
Interface	VGA
Resolutions	up to 1600 x 1200/16bit

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■ Integrated Devices

IDE	optional 2.5 HDD PATA
FDD	no
CD-ROM/DVD	no
Compact Flash	CF Adapter complete built in Optional 512up to 8GB Compact Flash Card
PCMCIA	no
DiskonChip	no
Watchdog Timer	Programmable Watchdog Timer, 1-63 sec.
Real Time Clock	standard
Keyboard/Mouse	PS/2 connector, Y-Adapter cable for Keyboard and Mouse

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■ Connectivity

LAN	2 x 10/100Mbps BaseTX with RJ45 connector, RealTek Chipset supports PXE Boot from LAN
WLAN	optional IEEE 802.11b/g WLAN Module with Antenna Encryption: WEP 64/128, WPA, WPA2
USB	2 x USB 1.1 supports boot function from USB
IEEE 1394	no
VGA	1 x 15-pin connector
Com Ports total	2 x DSUB 9 male
Com Port Modi	2 x RS232
LPT	1 x LPT connector
Audio	Line-in (Mic-in) Line-out ear-jet connectors
TV-out	no
S-Video	no

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■ Power supply

external Power Adapter	not in car version
Power input	12-24V DC

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■ Power consumption

average system alone	18,8W
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■ Environment

Operating Temp.	0°-50°C
Storage Temp.	-20°-+80°C

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■ Software

Windows	Win98, NT, 2K, XP, Embedded XP, CE 5.0
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Linux

Kernel 2.4 / 2.6

[>Back to top](#)**■ Approvals****EMC**

FCC Class A, CE Class A

Environment

RoHS

Other

e1 certification for in-vehicle operation

[>Back to top](#)**■ Ordering Information****Art.No**

287

Product Name

VS-EmRunner H plus e1

Packing listVS-EmRunner H plus e1 Embedded System
CD, English documentation
special 4-pin ATX Power connector DC 12V-24V and cable
Mounting Rails[>Back to top](#)**■ optional****WLAN**

IEEE 802.11b WLAN Module with Antenna

Memory

SDRAM up to 512MB

Mass Storage device2.5 HDD PATA
Compact Flash Card[>Back to top](#)

■ Full size product image



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