

## Preliminary Product Information

### **Com/PC1-800: Universal Embedded Box PC**

Communication server with multiple I/O interfaces



#### **Description**

The fanless Embedded Box PC Com/PC1-800 is ideal for use in communication-intensive industrial applications. Its compact housing holds a base board with an AMD Geode™ LX800 CPU, which runs with a clock speed of 500 MHz and 256 MB of virtual memory. During the design process, a great deal of emphasis was placed on the system's flexibility and ability to communicate. All Com/PC1-800 connections are, therefore, easily accessible on the front and rear of the system. The system can be mounted on a wall or on a DIN-rail, for example, inside a control cabinet.

A Linux operating system (available on an internal CompactFlash Card) or Windows®-XP Professional (on an optional 2.5" HDD) can be used. The Com/PC1-800 is supplied with a 110 to 230 VAC power supply unit as standard. A 12 to 24 VDC power supply unit is also available as an option.

In addition to two independent Ethernet LAN interfaces (1 x 10/100/1000 Mbps and 1 x 10/100 Mbps), which allow IT- and automation-related activities to be completely separated, the Com/PC1-800 features two separate PS/2 ports for connecting mouse and keyboard, as well as 2 CompactFlash slots, 10 serial interfaces, 4 USB 2.0 ports, 1 VGA port, 1 LPT port and sound I/Os.

On the rear of the unit there are four plug-in slots for communication expansions and/or analog / ISDN / GSM modems, as well as the power supply and various status LEDs. The Com/PC1-800 also supports the connection of up to three antennae for the purpose of setting up wireless communication via GSM / GPRS / EDGE or WLAN / Bluetooth.

One of the two internal Mini PCI slots is supplied with an IEEE 802.11g WLAN card as standard. This means the system can be connected to an existing infrastructure for example to an intranet or the World Wide Web.

If required, up to four slots for communication expansions can be made available on the rear of the Com/PC1-1100. Besides analog/ISDN/GSM modems, these can also accommodate fieldbus modules for PROFIBUS, PROFINET, CANopen, DeviceNet™, EtherNet/IP™, or Modbus IDA. Additionally, the Com/PC1-800 has an empty Mini PCI slot into which another expansion card can be inserted if required.

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### Technical Data Com/PC1-800

#### Hardware

CPU AMD Geode™ LX800 with 500 MHz  
System Memory 256 MByte DDR200/266 (max. 512 MB)  
Chipset AMD Geode™ CS5536

#### Case

Material Metal  
Dimensions 260 x 232 x 68 mm (10.24" x 9.13" x 2.68")

#### UART- Interfaces

4 x RS232  
4 x multi I/O slot  
2 x internal

#### I/O- Interfaces

1 x 10/100/1000 Mbit/s Ethernet  
1 x 10/100 Mbit/s Ethernet  
1 x IEEE 802.11g WiFi interface (Mini PCI)  
4 x USB 2.0  
1 x LPT  
2 x PS/2 for mouse and keyboard  
Line-In, Line-Out, Mic-In

#### Extensions

2 x multi-I/O slot for fieldbus modules  
alternatively 1 x analog/ ISDN/ GSM/ EDGE modem  
2 x Mini PCI slot

#### Memory extensions

2 x CompactFlash-Slot (1 x in front, 1 x internal)  
2 x slot for IDE 2,5" HDD

#### Display

1 x D-sub 15-pin analog VGA connector  
for CRT 1920 x 1440x32bpp @ 85 Hz

#### Power supply

Input voltage 110-230 VAC (optional 12-24 VDC)

#### Operation temperature

0 ~ +50°C

#### Ordering information

Com/PC1-800-AC	Com/PC1-800 with 512 MB SDRAM, WiFi integrated, input voltage 230 V AC
Com/PC1-800-DC	like Com/PC1-800-AC, but with input voltage 12-24 VDC
Com/PC-SK	Starter Kit with all necessary cables
Com/PC-WM	Wall Mounting Kit
Com/PC-DM	DIN-rail mounting kit
Com/PC-LX	CompactFlash card 1 GB with Linux
Com/PC-XP	40 GB 2,5" HDD with Windows XP Prof.

**SSV Embedded Systems**  
Industrial Communication  
Heisterbergallee 72  
D-30453 Hannover

Phone.: +49 511-40 000 45  
Fax: +49 511-40 000 40  
[www.ssv-comm.de](http://www.ssv-comm.de)  
[kge@ist1.de](mailto:kge@ist1.de)