

SNAP

Simple Network Application Platform

- ❑ Compatible with the MAXIM TINIÒ Format
- ❑ 2 Mbyte Flash
- ❑ 8 Mbyte DRAM
- ❑ Direct JAVA execution without VM
- ❑ 10/100 Base-T Ethernet
- ❑ CAN Port
- ❑ 3 Serial Ports (UARTs)
- ❑ Dual 1-WireÒ Net Interfaces
- ❑ I²C Bus
- ❑ Digital I/O
- ❑ Open System as Hardware Reference



General

The **SNAP** is a microcontroller module which has the same footprint as the well-known Dallas TINIÒ. It is ideally suited for use as a development system for embedded internet or ethernet applications. The built-in J2ME-CLDC Run Time Environment is certified Sun Microsystems and offers a safe and stable development platform.

The microprocessor used in the **SNAP** is called **Cjip** and is capable of interpreting Java Bytecodes without a virtual machine. This is the explanation for the execution speed being twenty times faster than in comparable products.

The **SNAP**-Module provides a number of standard interfaces to the outside world, not only for direct connection to peripherals but also for connection via a 10/100 Mbs Ethernet with a fully- implemented TCP/IP Protocol.

Applications

Together with a suitable motherboard and a PC, the **SNAP** forms a development system. For small-quantity production runs, the **SNAP** can be incorporated into your product as a component.

For larger quantities, you have the option of designing your own board and simply incorporating the **Cjip** processor. The circuit diagrams of the **SNAP** are freely available.

- Remote control
- Remote measuring systems
- Surveillance
- Haustechnik

Motherboards

For convenient connection, the **SNAP** can be mounted into a motherboard. TecSys offers a number of motherboards ranging from those which offer simply connectors for power, serial and Ethernet, to more complex boards with display and keyboard. For details, please refer to our website at www.tecsys.de.

Specifications

| Parameter | SNAP Module |
|--------------------------|---|
| Interface | 72-Pin SIMM |
| Measurements (L x B x D) | 107,95mm x 31,75mm x 10,42mm |
| Weight | ~ 230 gm |
| UARTS | Two serial Ports at 115.2 kb/s One serial Port at 460,8 kb/s |
| CAN | CAN Controller |
| Ethernet | Base-T 10/100 Mbps |
| Digital I/O | 3 x general purpose TTL Input/Outputs 2 x general purpose TTL Inputs 1 x general purpose TTL Output |
| Flash Memory | 2 Mbyte |
| DRAM Memory | 8 Mbyte |
| Write/Erase cycles | min. 300.000 / Block (1 Block = 2KB) |
| Power requirements | Extern 5V \pm 5% (Onboard Regulator at 3,3V) |
| Operating temperature | -20°C to +70°C (-40°C to +70°C also available) |
| Storage temperature | -55°C to +85°C |