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## Hardware Reference

### AUX Card

Ordering code	IC30338
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## POD Hardware Reference

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### iCard General Notes

The iC3000 support a wide range of serial debug interfaces like Motorola's Background Debug Mode (BDM), the Serial Debug Interface (SDI) and the On-Chip Emulation (OnCE) interface. JTAG based debug interfaces are also supported by these Emulators. For each specific debug interface a special iCARD is available.

The iCARD is a PCMCIA-style interface card which contains all necessary adaptations including the target interface cable for a selected serial debug interface. The iCARD plugs into the PCMCIA-style card slot of the iC3000 unit. Features like on-chip-, in-system programming and programming voltage generation are standard features.

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**Note:** Whenever connecting to the target both target and the Emulator must be switched off. The Emulator is first switched on, and the target right afterwards. Note that otherwise during connecting the target a massive current spike may flow during static discharge or ground potential equalization.

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On some debugging iCards beside the interface specific cable there's a 3-pin connector. The 5V/300mA output provides power to small low-power targets. On some iCards, also the 12V/60mA programming voltage is available and also generated by the iC3000 development system and routed to the iCARD's 3-pin connector. Note that the 12V output is controlled by the software. The output defaults to 5V. On the iC3000 the current for 12V flows from the 5V source. Thus, a 12V/50mA load represents 120mA load on the 5V power source. Note that on interface cards for ActiveEmulator, iTRACE and similar this connector is not available, and also on some iCards, the 12V output is not available since it is not needed.

When not in use, the iCARD should be kept in its protective antistatic bag to ensure its dependability and keep the 68-pin PC-Card connector clean.

**The iCard is a delicate piece of equipment. Always handle it with care, make sure not to bend it or deform it in any way, to keep it clean, etc. If these instructions are not followed, damage to the iCard or the Emulator can occur.**

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**Note:** Despite using the same format, iCARDS are not pin compatible with PCMCIA cards. Do NOT use iCARDS in PCMCIA slots and vice-versa! If the iCARD is inserted into a PCMCIA slot, damage to the iCARD and/or the PCMCIA slot will occur. If a PCMCIA card is inserted into the iCARD slot, damage to the PCMCIA card and/or the Emulator will occur.

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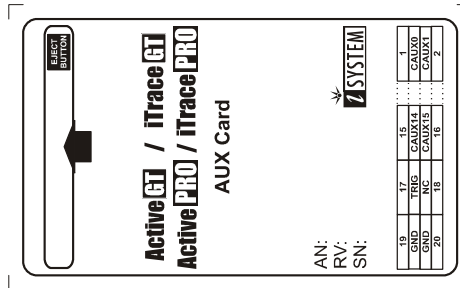
### Temperature range

All iSYSTEM devices, unless explicitly otherwise noted, are specified to operate at room temperatures (specifically, between 10°C/50°F and 40°C/105°F).

## Hardware Reference

### AUX Card

<b>Ordering code</b>	<b>IC30338</b>
<b>Dimensions (WxLxH, mm)</b>	<b>54x84x5</b>



#### AUX Card notes

The Aux Card is an iCARD type device, which can be plugged into the iTRACE PRO or the Active PRO POD. Through the AUX Card, the development system is able to trace 16 external signals, trigger on them and report externally the trace trigger event.

**Note: when AuxCard is used, the iTRACE PRO Interface Card revision D3 or newer must be used to connect the iTRACE PRO.**

The threshold level resolution is 50 mV. There are two separate groups: [15:8] and [7:0] for which separate threshold can be defined. The input range is between -1V and 6V, while the input impedance is 10k Ohm. Maximum sampling speed is 200MHz.

#### AUX Card Pinout

The following pinout is available on the AUX Card:

19	17	15	13	11	9	7	5	3	1
GND	TRIG_OUT	CAUX14	CAUX12	CAUX10	CAUX8	CAUX6	CAUX4	CAUX2	CAUX0
GND	n.c.	CAUX15	CAUX13	CAUX11	CAUX9	CAUX7	CAUX5	CAUX3	CAUX1
20	18	16	14	12	10	8	6	4	2

*JTAG target side pinout*

Pin 1 is identified by a notch (a small arrow) on the connector.

#### Important iCard information

Note that despite using the same format, iCARDS are not pin compatible with PCMCIA cards. Do NOT use iCARDS in PCMCIA slots and vice-versa!

Note also the direction in which the iCARD is inserted into the iCARD slot. The side with the label is the top side; the arrow shows the direction in which the iCARD should be inserted.

Notes:

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