

MAC7100/7200 iTRACE Probe

Ordering code MAC 7100/7200 iTRACE Probe
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IC30342



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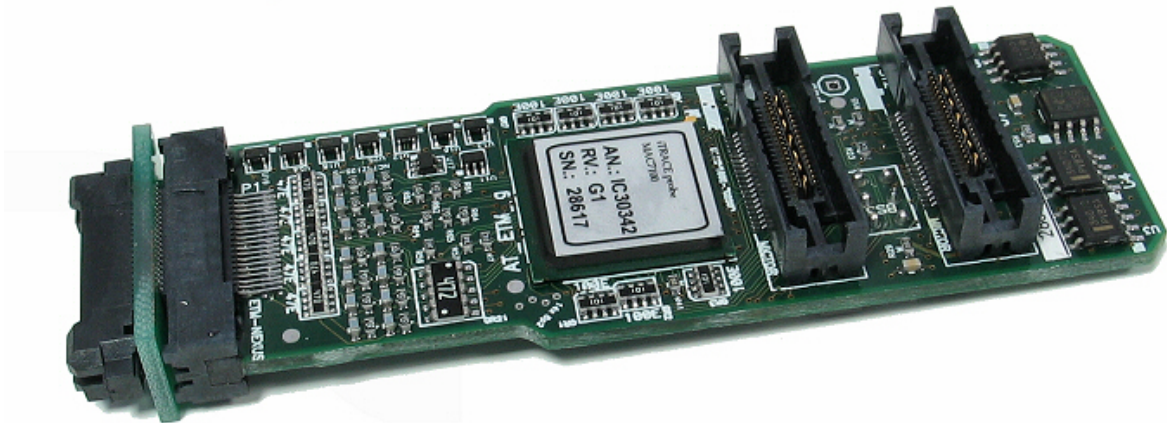
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Hardware Reference

MAC7100/7200 iTRACE Probe

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Dimensions (WxLxH, mm)	28x73x13



The iTRACE probe is used to connect the target to the Emulator.

The iTRACE Probe MAC7100/7200 connects to the iTRACE PRO system setup is used using the iTRACE PRO OCD Module, the iTRACE PRO Interface Card (which connects to the Emulator) and the optional iTRACE PRO AUX Card.

Ordering code iTRACE PRO Interface Card	IC30230
Ordering code iTRACE PRO OCD Module	IC30336
Ordering code iTRACE PRO AUX Card (optional)	IC30338

Target pinout

The iTRACE probe is connected to the target with a Mictor connector with a standard MAC7100/7200 (M38C) Connector pinout.

For the description of signals, please refer to the MAC7100/7200 Manual.

The following pinout is valid on the target side:

Signal direction	Signal	Pin	Pin	Signal	Signal direction
	n.c.	1	2	n.c.	
	n.c.	3	4	n.c.	
	n.c.	5	6	n.c.	
	n.c.	7	8	n.c.	
Input/Output	nSRST	9	10	EVTI (Nexus)	Output
Input	TDO (JTAG)	11	12	VTRef	Input
Input	RTCK (JTAG)	13	14	RDY	Input
Output	TCK (JTAG)	15	16	n.c.	
Output	TMS (JTAG)	17	18	n.c.	
Output	TDI (JTAG)	19	20	n.c.	
Output	TRST (JTAG)	21	22	n.c.	
	n.c.	23	24	n.c.	
	n.c.	25	26	n.c.	
	n.c.	27	28	MDO1 (Nexus)	Input
	n.c.	29	30	MDO0 (Nexus)	Input
	n.c.	31	32	EVTO (Nexus)	Input
	n.c.	33	34	MCKO (Nexus)	Input
	n.c.	35	36	n.c.	
	n.c.	37	38	MSEO (Nexus)	Input

M38C 38-pin Mictor target connector

Input, Output Signals

The input signals MSEO, MCKO, EVTO, MDO0, MDO1, RTCK, RDY and TDO have 10Kohm impedance. The voltage must be between 1.8 and 5V.

The output signals EVTI, TDI, TMS, TCK and nTRST are push-pull outputs, the output voltage is equal to 3.3V or equal to VTRef, if VTRef is lower than 3.3V.

The input/output signal nSRST is an open drain signal with a 1Kohm pull-up to the VTRef level.

The VTRef is an input with the resistance of 1Kohm and is used only for reference. Its value can be between 1.8 and 5V.

The threshold for inputs is $\frac{1}{2}$ VTRef, if VTRef is 3.3V or lower. If VTRef is higher than 3.3V, the threshold is $\frac{1}{2}$ of 3.3V. The minimal VTRef is 1.8V.

Emulation Notes

Hot attach is not supported. The probe must not be inserted into the target if the target is turned on or damage to the probe or iTRACE Card can occur.

It is advised to first turn on the Emulator and then the target.

Notes: