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## Hardware Reference

### iTRACE GT Extension Probe RTP

Ordering code iTRACE GT Extension Probe RTP
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IC30323
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## Hardware Reference

### iTRACE GT Extension Probe RTP

<b>Ordering code</b>	<b>IC30323</b>
<b>Dimensions (WxLxH, mm)</b>	<b>28x73x13</b>



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

The iTRACE GT Extension Probe RTP is connected to the iTRACE GT system. The system is composed using the iTRACE GT OCD Module, the iTRACE PRO/GT Interface Card and the optional iTRACE PRO AUX Card.

<b>Ordering code iTRACE PRO/GT Interface Card</b>	<b>IC30230</b>
<b>Ordering code iTRACE GT OCD Module</b>	<b>IC30320</b>
<b>Ordering code iTRACE PRO AUX Card (optional)</b>	<b>IC30338</b>

### Target pinout

The iTRACE probe is connected to the target with a Mictor connector.

On the iTRACE Probe there are standard JTAG signals available. The signals are enabled only if they are activated in the software, otherwise they act as not connected.

The following pinout is valid on the target side:

Signal	Pin	Pin	Signal
n.c.	1	2	n.c.
n.c.	3	4	n.c.
n.c.	5	6	RTP_CLK
n.c.	7	8	RTP_SYNC
n.c.	9	10	RTP_ENA
RTP_DATA0	11	12	RTP_DATA1
RTP_DATA2	13	14	RTP_DATA3
RTP_DATA4	15	16	RTP_DATA5
RTP_DATA6	17	18	RTP_DATA7
RTP_DATA8	19	20	RTP_DATA9
RTP_DATA10	21	22	RTP_DATA11
RTP_DATA12	23	24	RTP_DATA13
RTP_DATA14	25	26	RTP_DATA15
n.c.	27	28	n.c.
GND	29	30	GND
TCK	31	32	RTCK
nTRST	33	34	nSRST
TDI	35	36	TDO
TMS	37	38	n.c.

*ETM 38-pin Mictor target connector*

## Input, Output Signals

The input signals RTP\_SYNC, RTP\_DATA[15:0], RTP\_CLK, RTP\_ENA, RTCK and TDO have 10Kohm impedance. The voltage must be between 1.8 and 5V.

The output signals 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.

## 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 GT can occur.

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

Notes: