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What is the difference between LA-2729 and LA-3770?

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The LA-2729 and LA-3770 are both IDC20A-to-MIPI converters, but they differ in the signal assignment of the upper 10 pins of the MIPI-20 connector.

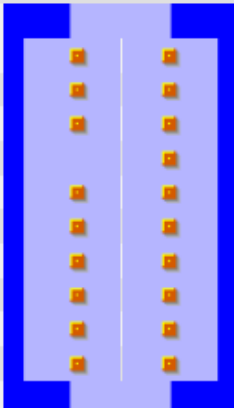
- [LA-2729](#): converts IDC20A to MIPI-10/20T
- [LA-3770](#): converts IDC20A to MIPI-10/20/34

Key differences:

- **LA-2729** uses a **MIPI-20T** connector with the following pin mapping:
 - Pin 12 = TRACECLK
 - Pin 14 = TRACEDATA[0]
 - Pin 16 = TRACEDATA[1]
 - Pin 18 = TRACEDATA[2]
 - Pin 20 = TRACEDATA[3]



Pinout MIPI-20T Connector

Signal	Pin		Pin	Signal
VREF-DEBUG	1		2	TMS TMSC SWDIO
GND	3		4	TCK TCKC SWCLK
GND	5		6	TDO -SWO
GND (KEY)	7		8	TDI
GND	9		10	RESET-
GND	11		12	TRACECLK
GND	13		14	TRACEDATA[0]
GND	15		16	TRACEDATA[1]
GND	17		18	TRACEDATA[2]
GND	19		20	TRACEDATA[3]

Note

This converter does not connect the trace pins of a CoreSight MIPI20T connector since they are not used by IDC20A debug cables. Whereas tracing via SWO/SWV is supported.

- **LA-3770** uses a **MIPI-20D** connector with the following pin mapping:

- Pin 12 = RTCK
- Pin 14 = TRST-PULLDOWN
- Pin 16 = TRST-
- Pin 18 = EDBGQRQ (EMU0)
- Pin 20 = DBGACK (EMU1)



Pinout MIPI-20D Connector

Signal	Pin		Pin	Signal
VREF-DEBUG	1		2	TMS TMSD SWDIO
GND	3		4	TCK TCKC SWCLK
GND	5		6	TDO - SWO
GND (KEY)	7		8	TDI
GND	9		10	RESET-
GND	11		12	RTCK
GND	13		14	TRST- PULLDOWN
GND	15		16	TRST-
GND	17		18	EDBGRQ (EMU0)
GND	19		20	DBGACK (EMU1)

Notes

- Most evaluation boards use a MIPI-20T pinout.
- LA-3770 can be reconfigured (solder bridges) for MIPI-20T.

For further details, refer to the [Arm Debug and Trace Interface Specification](#).