What Are the Use Cases of the CombiProbe’s Two Whisker Connectors?

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The two connectors of the CombiProbe can be used in two ways:

- To connect two identical whisker cables for debug and trace.
- To connect one whisker cable plus a Mixed-Signal Probe for combined digital/analog analysis.

Connecting Two Whisker Cables

The CombiProbe supports connecting two identical whisker cables, allowing debugging over two independent debug ports — each with or without trace. This setup is typically used when two SoCs are mounted on the same board and need to be debugged simultaneously.

For example, consider a PCB with two Cortex-M chips that interact heavily. To perfectly capture the interaction between the chips, you need to trace both cores with proper time synchronization. A CombiProbe 2 with two MIPI20T-HS whiskers, can do this

Additionally, a CombiProbe with two whisker cables can be used to debug and trace two separate boards.

Note

It is not possible to use two different types of whisker cables on the same CombiProbe.

Refer to the Lauterbach website for details on supported processor architectures.

Connecting a Whisker Cable and a Mixed-Signal Probe

The second connector of the CombiProbe 2 can be used to attach a Mixed-Signal Probe alongside a whisker cable. This configuration enables recording of both digital and analog signals, which can then be correlated with program flow trace for deeper system analysis.