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Media Board –Low-cost interface for remote handling of beam instrumentation devices at the Super-FRS

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At the Super-FRS, the new in-flight separator under construction at FAIR [1] many beam instrumentation devices like detector drives, degrader and slit systems, etc. have to be implemented. These devices are installed as insertions in the diagnostic vacuum chambers at the various focal planes of Super-FRS. The insertions have to be remote handled due to the highly activated environment by means of a fully autonomous industrial robot system.

In order to connect and disconnect automatically utilities like electrical power, cooling water, compressed air, electrical signals, etc. a low-cost mechanical interface called media board was developed at GSI. In this contribution we will present this development.

[1] <https://www.gsi.de/en/research/fair.htm>

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