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An IPCORE for Deterministic Ethernet via Time Sensitive Networking (TSN) light implementation: challenges and opportunities

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Since some years, worldwide, an effort has been made to find a new candidate for time critical application busses and the 'retiring' of the MIL-BUS-1553 has been in some way triggered. While several candidates have showed up, a 'universal heir' has not yet being found.
In order to add a piece to this complex puzzle, GMV and Seven Solutions would like to present their work about Deterministic GEthernet network.
An IPCORE based on a TSN light implementation, together with RTEMS drivers, has been designed and developed by Seven Solutions upon system requirements and validation methods provided by GMV.
A first use case has been identified: MIURA 1 sounding rocket, whose mission is to provide microgravity environment to payload experiments but also to provide a flying test bed for technologies that will fly with MIURA 5 micro launcher.

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