



TECHNOLOGY DESCRIPTION

The Celestia STS multi-purpose interface platform (MPIP) is a compact, modular and polyvalent system designed for hardware test and simulation, and can support up to 400 electrical interfaces in a single 4U unit. Ideal for building and combining sub-systems into reliable and complex (space) systems. The correct interfacing and operation between systems is critical, and this is must be guaranteed by thorough testing and simulation. The MPIP help users fulfil these needs by providing a large number of interfaces and intelligent management of these. The MPIP can be used to test communications and integration between sub-systems and for fail-safe testing for part replacements or for simulating a system that is not yet integrated.



SPACE
FOR BUSINESS
BUSINESS
FOR SPACE



INNOVATIVE ASPECTS

- Enables risk reduction through testing and simulation of different satellite interfaces
- Being modular and integrating several types of interfaces and functions into one single unit, the MPIP reduces the price, footprint and management overheads of system testing equipment
- Can hold up to 16 boards that all operate simultaneously, making the device very polyvalent
- Offers full testing in a range of different scenarios, reducing the risk of failures down the line
- Option for control of other (test) systems through discrete bi-directional trigger signals, time signals, (high-speed) data transmission and power distribution



TECHNOLOGY READINESS

TRL 9 (2025)

COUNTRY OF ORIGIN

Netherlands

LATEST UPDATE

03/2025

CONTACT



TAGS	#FailSafeTesting	#Simulation	#Verification	#Qualification	#Electrical Interface	#HighPower Command
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APPLICATION AREAS	Aerospace	Aviation	Automotive	Maritime	Defence	Renewables
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