

Cryptographic Processor For Control Of Telecom Processing Payloads

Activity:

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Abstract:

A breadboard of a stand-alone cryptographic module to protect communications for control and reconfiguration of advanced payloads has been manufactured and tested. The stand-alone cryptographic module is intended to be used to protect communications for control and operation of payloads independently from the platform command path and aims at providing with a number of advantages over traditional platform TTC solutions (e.g. emergence of separate security domains mapping with distinct responsible parties, capability for payload and platform security requirements and technology to evolve separately). This module is intended to be used in various application contexts, including the protection of space communications for control and configuration management of commercial communication satellite payloads implementing on-board digital processing.