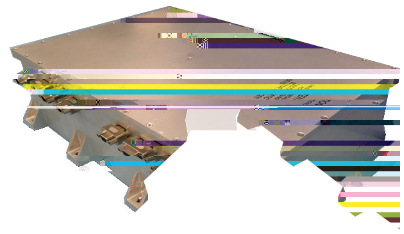
FA

HOSTED PAYLOAD INTERFACE UNIT (HPIU)

Facilitating rapid deployment through standard interfaces



command authentication and payload data being passed between the hosted payload and commercial or government host satellite. HPIU is designed for use with the NSA-certified cryptographic product KI-700 and also supports migration to alternative NSA-certified cryptographic products.

Designed to be payload or bus agnostic, the HPIU allows payload development to be independent of ride share. The flexibility of the design enables shorter integration timelines, provides a variety of secure interfaces to meet mission requirements, offers a tailorable parts program for various duration missions and offers on-orbit reprogrammability on the payload side.

PARAMETER	SPECIFICATION
Encryptor/decryptor configuration	Suppo[illegible]imensions 27.58 cm x 30.savings. The HPIU can be used on satellites seeking certified end cryptographic unit (ECU) solutions for the purpose of handling the encryption and decryption of telemetry,

compliance with CNSS Policy No. 12 and implements HHH-level security controls compliant with DoDI 8500.01E.

FEATURES

- Scalable architecture to meet requirements without design changes or recertification
- Wide range of data rates to meet mission needs
- High technology readiness level solution (TRL)
- On-orbit reprogrammable field programmable gate array (FPGA) on payload (RED) side
- RED/BLACK power isolation and filtering
- Contractor-provided integration support to reduce risk of fielding new capab[illegible]W. NASA Boulevard [illegible]lbourne, FL [illegible]

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Non-Export-Controlled Information

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