

aSIU-200

STORE INTERFACE UNIT

The aSIU Store Interface Unit manages launchers and stores (munitions) on the platform: it relays Fire Control System commands to launchers and munitions and returns their status to the FCS. It manages electrical and logical interfaces in full MIL-STD-1760 compliance, provides electrical power and discrete signals according to each munition's functional flow, performs safety-critical functions during firing, and controls network-enabled weapons via data link after launch. Navigation data from the platform is used for store transfer alignment (TxA). Up to 8 munitions are managed simultaneously, in packages of 1-8 or more slots.



TYPICAL APPLICATION

Munition and launcher control for land, marine & air platforms and HWIL

STORE COUNT

8 simultaneous

STORE INTERFACE

MIL-STD-1760 compatible · MIL-STD-1553 · 1× 115 VAC 400 Hz · 2× 28 VDC @ 10 A · 2× 5 V 2 A · 2× 28 V 5 A · release consent, interlock, 5× addr + parity · 1× 100 Mb Ethernet · 1× RS-422 UART · 5× 28 V 1 A discrete I/O (12 total) · 6× open/short I/O (10 total)

PLATFORM INTERFACE

28 VDC & 115 VAC 400 Hz from platform · 2× 100 Mb Ethernet · 2× programmable UART (RS-422/485/232) · 2× 28 VDC output · 1× 24 V input · 5× 28 V 1 A discrete in & out · 5× open/short I/O (10 total) · 2× 5 V 2 A output

SOFTWARE

Hard real-time operating system · store management system software · interface conversion · custom interface implementation

LOGICAL INTERFACE

FCS-SIU generic interface over Ethernet

INTEGRATION & DEPLOYMENT

SUPPORTED MUNITIONS	Kuzgun (TÜBİTAK SAGE) · Çakır (Roketsan)*
SUPPORTED PLATFORMS	Marine · land
DATA LINK	Post-launch control of network-enabled weapons
POWER	50 W @ standby
PHYSICAL	300 × 745 × 545 mm · 50 kg

(*) Avionics integration completed; launch test ongoing.

SAFETY CRITICAL Safety-critical functions performed during firing sequence	TRANSFER ALIGNMENT Platform navigation data used for store TxA	SCALABLE Packaged from 1 to 8+ slots per unit
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INTEGRATE YOUR STORES WITH CONFIDENCE

Tell us your munitions and platform — we'll configure the aSIU around your fire control architecture.