



MIL-STD RUGGEDIZED / IP68 / FANLESS

CARDSHARKTM

Compute, AI, and real-time processing — carried, not connected. Power built for the hand of the dismounted operator, not a rack in the rear.

100

TOPS of AI performance from the onboard
NVIDIA Jetson Orin NX

ZERO RELIANCE ON CLOUD / REACH-BACK

// AT THE EDGE



Everything that relies on the cloud, can be on-prem.



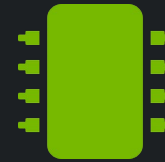
Sensor fusion



Situational awareness



Computer vision



AI-enabled workloads



Mission-critical data
processing

// BUILT FOR THE FIELD, AND FOR THE NETWORK



Rugged enough to forget it's a computer.



IP68

Sealed enclosure — dust and submersion rated



MIL-STD

Tested to military environmental standards



0 MOVING PARTS

Fanless passive cooling — silent, nothing to fail



NW COMPATIBLE

Connects to MANET radios — gives every user on the network the same picture



ANY PLATFORM

Used on the soldier, in a vehicle, or in a TOC — same hardware, same software



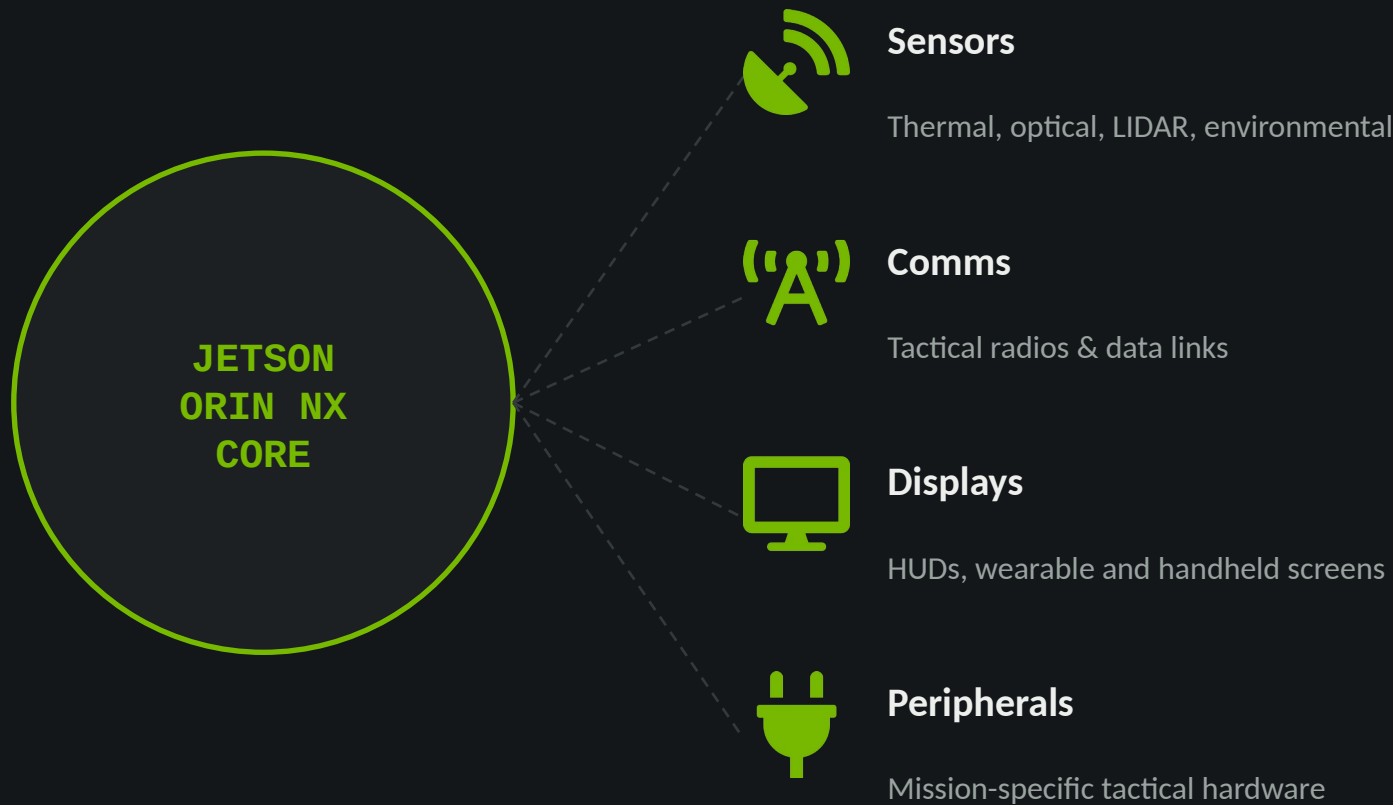
CONNECT TO ANYTHING

Connect CardShark™ to any LAN or radios to hyper-enable users

// FLEXIBLE I/O



One core, built around the mission — not the other way around.

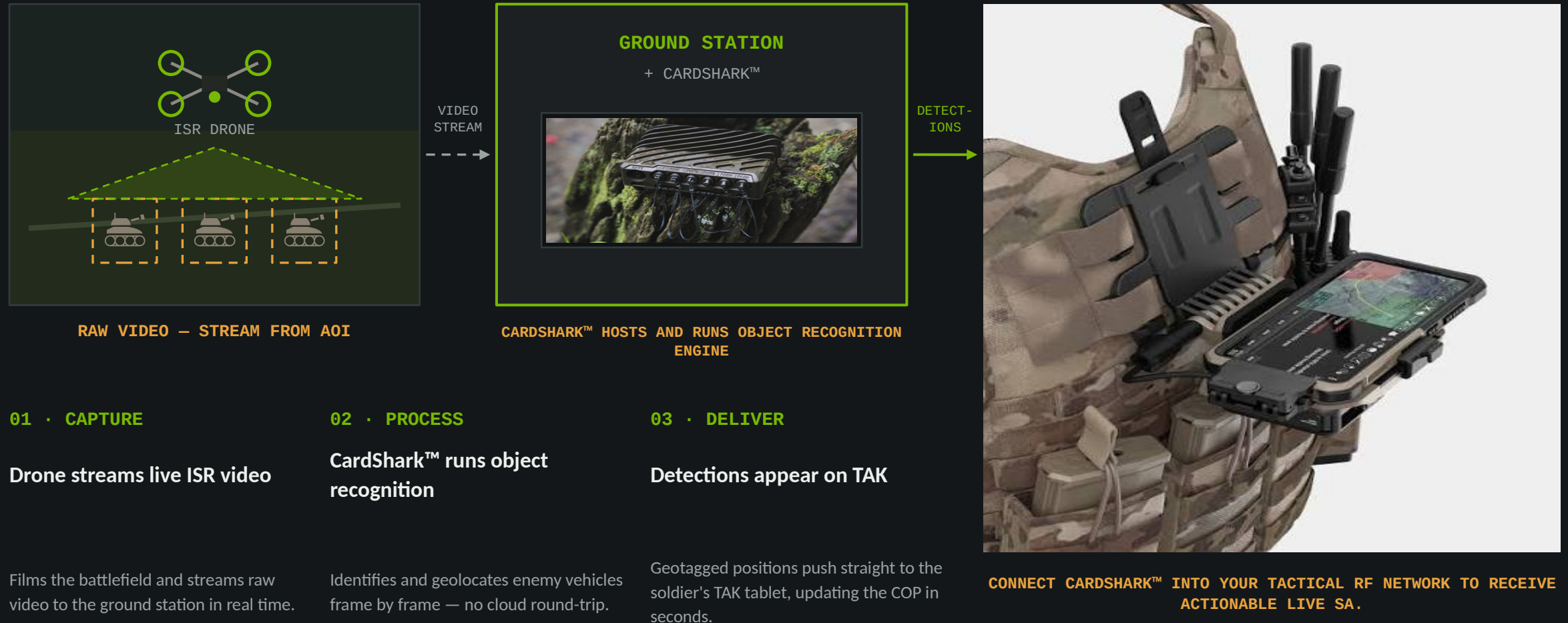


CARDSHARK™ — SEALED, MODULAR I/O

// EXAMPLE USE CASE 1 - OBJECT RECOGNITION



Object detection of hostile vehicles directly into TAK.



// EXAMPLE USE CASE 2 - RF COVERAGE PLANNING



Know your radio coverage to your team, in any environment, before you set up. Not after.



GROUND STATION — CARDSHARK™ + RADIO RELAY HARDWARE

SOOTHSAYER™ COVERAGE VIEW — CANDIDATE RELAY SITES CS01-CS04

Multiple MANET radio models and waveforms available, including most mainstay OEM radios, plus global LiDAR and DTED terrain data for near-instant results.

01 · MODEL

CardShark™ hosts Soothsayer™ and processes the data

Local elevation, clutter and candidate relay positions load directly onto CardShark™ — no survey team required, no signal home.

02 · ANALYZE

Soothsayer™ scores every site

GPU-accelerated Best Site Analysis runs on CardShark™ at the edge, testing every candidate location and ranking them by predicted coverage.

03 · DEPLOY

The team places the relay once

The winning site and its coverage footprint push straight to the team's radios and TAK, so the relay goes up right the first time.



Processing moves to the operator. Not the other way around.

No round-trip to a server. No dependence on a signal home. CardShark™ puts the compute where the decision gets made — in the field, under load, in silence — so information moves faster and the operator moves with it.

- ~~Fixed and vulnerable infrastructure and cloud reliance~~
- ~~Wait on cloud compute~~
- ~~Wait on reach-back infrastructure~~
- Sensor data → CardShark™ (On-Prem, ANYWHERE)
- Processed at the edge, in real time
- Operator acts — hyper-enabled