

PATTON AI: NEXT-GEN AUTONOMOUS WARFARE

Hive command software · Titan vehicle computer · Malar GNSS · PHASER link layer

Machine-speed command in contested environments.

When all else fails, Patton Prevails

www.PattonAi.com

One stack. Four layers. Built for the fight that breaks everything else.

HIVE	Staff nets go late. Mixed fleets go blind. Command dies when the common picture lies.	Machine-speed C2 that keeps the last lawful task as the order. Self-healing across domains. Operator veto on issued TAK.
TITAN	Vision boxes take the motors. Controllers fail when the hull is contested.	Vehicle computer that stays a vehicle. Hard real-time flight control with the stack that never hands the aircraft to software.
MALAR / ZEROFAIL	One patch. One beam. A source on the ridge burns L1. The screen stays green. The aircraft flies the lie.	The mast that keeps a lock when someone burns the sky. Resilient aperture and anti-jam that holds position in denied environments.
PHASER	Primary links drop. Control plane dies. Nodes go dark in the last mile.	Upcoming link layer under Hive. Layered dual-mode CSS engineered for coverage and resilience beyond conventional LPWAN.

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THE MARKET

Defense and commercial. Four products. Twenty years of pull.

HIVE · SOFTWARE

Defense AI C2

$9.8 B → $31 B · 2034

Denied / mixed-fleet slice
Commercial fleet software also $3–4 B → $13–18 B

TITAN · VEHICLE COMPUTER

Flight-controller systems

$7–8 B → $18 B · 2035

Dual-use, commercial-heavy
~9–10% through 2035

MALAR / ZEROFAIL · GNSS

Vehicle mast / resilient nav

$1.2 B mil → $3.5 B
$0.9 B com → $2.8 B

Drone nav ~$2.4 B (2025) → $5+ B (2032)
Military ~50–58% share; anti-jam & denied growing faster

PHASER · LINK LAYER

Upcoming LPWAN

$0.4 B mil → $2+ B
$12 B com → $40+ B

LPWAN ~$7–17 B (2025) → $25–70 B class
Control-plane under Hive · TRL 2–3

Sources: published category reports (drone navigation, high-precision GNSS, LPWAN, military anti-jam). Figures are directional market context, not Patton bookings. Dual-use is the point.

TOTAL ADDRESSABLE MARKET

Combined market across the full stack.

NEAR TERM (2025–26)

Military / Defense

~$18–20 B

Hive C2 + Titan + Malar/ZeroFail + PHASER tactical

Commercial / Civil

~$23–28 B

Fleet software + Titan + Malar/ZeroFail + PHASER LPWAN

FORWARD (2032–35)

Military / Defense

~$55–60 B

Hive C2 + Titan + Malar/ZeroFail + PHASER tactical

Commercial / Civil

~$75–85 B

Fleet software + Titan + Malar/ZeroFail + PHASER LPWAN

Combined directional total across Hive, Titan, Malar/ZeroFail, and PHASER. Categories have some overlap; figures are market context from published reports, not Patton bookings.

THE OPERATIONAL REALITY

Contested multi-domain operations.

Forces must coordinate mixed unmanned teams across air, land, sea, space, cyber, and the electromagnetic spectrum — often when GPS and the pipe are already gone.

AIR	ISR, strike, launched effects
LAND	UGV, armor, humanoids
SEA	Surface and subsurface
EMS	Denied spectrum, TAK glass



THE LEGACY FAILURE

Current C2 still assumes a live pipe and a true map.

Latency **> 500 ms**	Autonomy **< L3**	Map **Static / torn**
Collaboration **Absent**	Causal reason **Missing**	Runtime veto **Absent**

MISSION

One platform. Four pieces. One fight.

Patton AI exists for the hour the common picture starts lying. Hive is command when the last lawful task must remain the order. Titan is the computer that stays a vehicle. Malar is the mast that keeps that board honest. PHASER is the link layer that keeps the control plane alive when primary links degrade. None replace each other. Together they sit on one hull, behind issued TAK.

THE WARFIGHTER

He does not wait on a staff net that is already late.

He does not hand motors to a vision box.

He does not fly a compass that sat next to an ESC.

He does not burn the window on a cold start.

THE BATTLEFIELD

Losing nodes does not mean losing the fight.

Denied sky does not mean a dead aircraft.

A carbon hull and a bag sit stop being reasons the mast lies.

Doctrine stays in the recommendation. The operator still vetoes from ATAK.

THE PROGRAM

Three products. One denied-environment stack.

HIVE

Command software for mixed unmanned teams.

Last lawful task. Delayed CoT. Byzantine refusal. Runtime veto. Self-healing leader election. TAK remains the glass. The hull can be anyone's. Hive sits on top and keeps a lawful fight running after the picture dies.

TITAN FMU

The vehicle-resident computer under Hive.

Microcontroller owns motors. Compute Module 5 owns vision and the Hive node. Isolated flight rail. Analog kill. Issued ATAK. Titan does not replace the airframe and does not replace Hive.

Command software for the hour the common picture starts lying.

Last lawful task

When the mesh tears, the last legal order remains the order.

Delayed honesty

A late track is marked delayed. It does not pretend to be live.

Byzantine refusal

A compromised node cannot talk the rest into a new war.

Human gate

Employment stays with a person. Illegal never leaves the software.

Self-healing web

One box dies. Another takes the web.

TAK face

ATAK, CivTAK, WinTAK. Already issued. Authority stays in Hive.

One command layer across every domain.

Air / UAV

ISR, strike, SLAM-enabled launched effects

Land / UGV

Armor, logistics, humanoids

Sea / USV

Surface and subsurface packs

Space / Cyber / EMS

Denied spectrum + TAK face



ISSUED GLASS

The soldier already has the face. Patton is the brain behind it.

Fielded EUD

ATAK, CivTAK, WinTAK, iTAK. No new brick.

Cursor on Target

Tracks, tasks, alerts, veto flags. TAK Server optional.

One map

UAS, launched effects, UGVs tasked from one picture.

Authority in Hive

Policy, election, veto, and audit never leave Patton.

Override on TAK

Authenticated kill / redirect from the EUD. Traced.

MOSA path

Plugin + CoT bridge. We do not replace TAK Server.

SELF-HEALING HIVE

Swarm cohesion under fire.

When nodes are jammed, destroyed, or isolated, the network elects a new leader. Contested comms keep the swarm coherent when the pipe is rumor.

<10s	Failover under node loss
10+	Hive-enabled asset types
Live	Heartbeat and health



Navigation when GPS is denied.

- Passive SLAM and visual odometry — no RF shout to stay found.
- Cooperative localization when the satellite is a liar.
- Shared map coverage and position confidence on TAK.
- Titan hosts the cameras. Hive keeps the last lawful task.



ZEROFAIL GNSS

The aircraft did not fail because the chipset was cheap.



It failed the aperture. One patch. One beam. A source on the ridge burned L1. The screen stayed green. The aircraft flew the lie.

The mast that keeps a lock when someone burns the sky.

When all else fails, Patton Prevails

A standard puck is one ear in a shouting room.

ONE PATCH

A single element takes the interferer with the satellites. The engine never gets a clean sky.

NO NULL

Firmware cannot steer a beam it does not have. Weights need four chains and a shared clock.

PRETTY LIE

Spoof arrives looking like a fix. A puck streams 3D. The hull follows a ghost.

WRONG RAIL

Powered from the companion, the mast dies when Linux dies. Titan still flies. The sky goes with the camera.

What we put on the vehicle that a puck will not.

FOUR EARS

Four RHCP elements on a 95 mm can. The sky is sampled, not hoped.

WEIGHTS FIRST

Beamformer before the engine. The chip never sees raw element RF.

MUTE ON FAULT

Integrity drops. No coasted pretty fix sold as 3D. Titan treats GNSS as an aid.

TITAN GPS1

JST-GH six-pin. 5 V from the flight rail, not the companion. PPS on the ten-pin.

MALAR STILL OWNS HEADING

I2C is left open. Compass vote and the bag stay on Malar. Two masts. One UART.

RECEIVE ONLY

No transmit.

What the upgrades mean to the warfighter.

Causal models

Why this COA beats the other before anyone walks it.

Runtime veto

ROE live in the code. Illegal does not leave the software.

4D negotiation

Air, ground, and people do not share a hole.

Contested comms

Store, forward, ignore a compromised node.

Cooperative fix

Teammates hold each other when GPS dies.

Energy / thermal

Change the task before heat kills the machine.

Robust perception

Sensors stay useful against smoke and decoys.

Team tactics

Hunter-killer, screen, isolate — not a task list.

Learning gates

Gets smarter without breaking validated behavior.

Human–robot bound

Hard limits around friendlies in real time.

ON THE BATTLEFIELD

What the difference actually means.

Survive the first strike

Losing nodes does not mean losing the fight.

Fight denied

SLAM and cooperative fix finish the mission.

Decide faster

Ranked COAs with rationale. Human still says yes.

Scale without chaos

One layer. 4D deconfliction.

Keep humans in authority

Veto and kill from ATAK.

Cut staff noise

Correlation off the analyst. Judgment stays.

What the stack is built to do.

70%+	Staff noise off the analyst. Judgment stays.
<10s	Hive failover under node loss or jamming.
VETO	Runtime doctrine shields. Human still says yes.
TAK	CoT tracks, tasks, alerts, override on issued glass.



EXPLAINABLE COMMAND

Doctrine-driven recommendations with a rationale.

Every recommendation carries why. Runtime shields can veto. Operators reevaluate from ATAK as conditions change. OODA compresses. Authority does not leave the human.

Causal COA

Ranked options. What happens if you choose differently.

Human in the loop

Final yes stays on the EUD already issued.

Mission context

Live conditions plus what-if. Audit trail after.



The computer that remains a vehicle.

Fiber closed one class of jamming. Vision closed the last radio-optional mile. Neither matters if Linux holds the motors, one rail holds the gyros, and command software still assumes a live pipe.



Titan is the board that does not.

STM32H753-class flight brain · Raspberry Pi CM5 · isolated 5.30 V rail · latch-off eFuse · analog kill · Ethernet primary · dual CSI · 4–6S pack

Dual-brain stack under Hive

Six things a lash-up and a closed module do not give you.

01 Linux never owns a motor

Inner loop on the microcontroller. Setpoints advisory. Ethernet primary.

02 Flight rail survives the camera

Separate bucks. Latch-off eFuse. 5.22–5.38 V window under companion-kill.

03 Interrupt that is not a packet

Analog KILL_N into DShot output-enable. Works if both OS are wedged.

04 Denied nav is first-class

Global-shutter CSI. GNSS is an aid. Companion death is hold or land.

05 Issued TAK stays the glass

CoT onto ATAK. Delayed when stale. No vendor GCS required.

06 Hive is a node. Hull stays yours.

Open PX4 / ArduPilot. OEM airframe. Titan does not replace TAK.

PATTON AI

INVESTOR BRIEF · NOVEMBER 2026

PATTON PHASER

The link layer under Hive.

Autonomy scaled the team. It did not scale the channel. Put every drone, robot and sensor on one shared band and the packets collide, the heartbeats go quiet, and command software is left guessing.

PHASER is the link designed so they do not.



All-weather field unit, concept rendering

Dual-use 2.4 GHz LPWAN concept Under Hive Human commander in charge TRL 2-3

An indoor/lab variant shares the same core electronics.

When all else fails, Patton Prevails.

THE FAILURE MODE

The vehicles are solved. The channel is not.

01

One channel, every node

Classic LoRa (CSS) is energy-efficient, but overlapping packets collide and the capture effect drops all but one. Capacity caps out exactly as the team grows.

02

The band is already crowded

2.4 GHz ISM is shared with Wi-Fi and other traffic. Co-channel and cross-technology interference land hardest where the team is densest.

03

Contested spectrum is the operating case

Military and government missions run where links are jammed and degraded. A control link that assumes a clean band is a link for an uncontested range.

04

Command software assumes the heartbeat

Hive is designed to keep a force coherent when links are jammed and nodes are lost. It still needs status, tasking and heartbeat to reach the nodes. That low-rate control plane cannot go quiet.

One commander. One Hive. One link layer. Many vehicles.

HUMAN COMMANDER

Owns the yes

Approves, vetoes and holds the kill switch on every action. Authority stays with a person, not a packet.

PATTON HIVE

Owns the task

Patton 4.5 BMC2 command software. Orchestrates drones, ground robots and humanoids as one team. Runtime ROE veto. TAK remains the glass.

PHASER

Owns the link

Designed to carry status, telemetry, tasking, heartbeat and swarm coordination. A resilient low-rate fallback when primary links degrade. Not video.

THE VEHICLES

Own the physics

Drones, ground robots, humanoid robots and distributed sensors. OEM hulls stay OEM hulls. Patton AI does not build airframes.

If the primary link degrades, PHASER is designed to keep the control plane alive. If a node is lost, Hive keeps the team coherent. If the commander says no, the action does not happen.

Two variants. One core.



All-weather field unit, concept rendering

ALL-WEATHER FIELD UNIT

- Sealed all-weather enclosure, IP67 design target
- Designed for tower, mast or pole mounting
- Surge protection, design target



Indoor/lab unit, concept rendering

INDOOR/LAB UNIT

- Designed for bench, command post or shelter use
- Same core electronics as the field unit
- Same 2.4 GHz waveform family and Hive role



Thank you.

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