ATACS

AUTOMATED TACTICAL
ARTILLARY CONTROL SYSTEM

Enhanced Precision and Adaptability on the Battlefield

The Automated Tactical Artillery Control System (ATACS) offers a comprehensive fire control solution that enhances battlefield effectiveness through precise pointing and navigation. Its highly adaptable design improves weapon agility, autonomy, survivability, and lethality, ensuring rapid deployment with pinpoint accuracy.

Benefits

- **Rapid deployment**
- **Saves ammo**
- **High accuracy navigation & positioning**
- **Precision aiming**
- **Accelerated fire support**

Leveraging proven inertial sensors, MILNAV™ Vehicle Reference Unit or VRU within ATACS maintains precise performance even in the presence of jamming, spoofing, or signal loss. Its ability to continuously track heading, pitch, roll, and position enables reliable targeting and navigation in contested or obstructed environments, giving warfighters the tactical advantage when GPS is unavailable or compromised.

Automated Tactical
Artillary Control System

PROVEN VALUE

With more than 1,100+ units fielded worldwide, this cost-effective upgrade is adaptable to any artillery platform

Multi-Platform Superiority

"One weapon system with ATACS equals three without; ***a true FORCE MULTIPLIER!"***

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Elevate Operational Capabilities and Responsiveness

ATACS comprises multiple modular elements, allowing warfighters to meet specific operational needs. Key components, such as the Miniature Integrated Land Navigation (MILNAV) and the Chief of Section Display (CDU), work seamlessly together. The MILNAV computes all navigation and attitude data, delivering real-time information to the CDU for informed decision-making. With ATACS, you gain a **powerful tool that elevates your operational capabilities and responsiveness in dynamic environments**.

System Components

MILNAV™

- Miniature Integrated Land Navigation System Vehicle Reference Unit (VRU)
- Precision aiming and navigation
- Proven sensor technology
- Precise performance in battlefield environments

Control Display Unit (CDU)

- Primary MMI
- High resolution displays

High Resolution LCD

- Gunner Display Unit (GDU)
- Driver Display Unit (DDU)

Vehicle Motion Sensors (VMS)

- Compact size
- Self Built-In-Test (BIT)

Power Control Unit (PCU)

- Accepts 24 VDC from vehicle main
- Powers: MILNAV, CDU, DDU, and GDU

GPS Denied Navigation

MILNAV™ maintains precise performance even in the presence of jamming, spoofing, or signal loss.

1.0 mil Aiming

Automation and accuracy to place multiple rounds on target, significantly improving force effectiveness.

10 m CEP Position

Accurate waypoint navigation ensures optimal positioning for fire missions.

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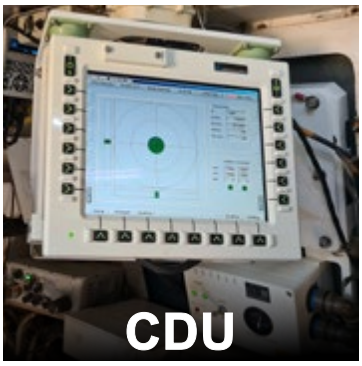
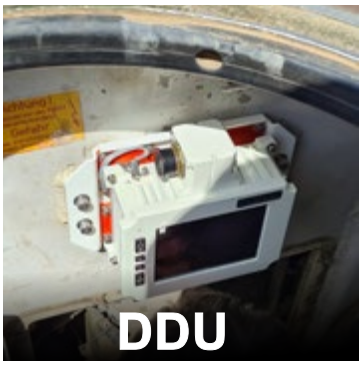
Installation Photos


CDU


GDU


DDU


PCU


MILNAV™


VMS

Multi-Platform Adaptable

Self-Propelled Howitzers

Towed Howitzers

Mortars

Multi-Launch Rocket Systems (MLRS)

Adaptable for gun lane positioning system on any vehicle (true heading reference)

ATACS | Automated Fire Control

PRODUCT SPECIFICATIONS

System Characteristics	Size	Weight	Power
MILNAV	8,849 cm3 (540 in3)	9.1 kg (20.0 lbs)	< 30 W
CDU	8,931 cm3 (545 in3)	8.0 kg (17.6 lbs)	< 36 W (*56 W)
DDU	3,900 cm3 (238 in3)	2.5 kg (5.5 lbs)	< 20 W (*35 W)
GDU	3,900 cm3 (238 in3)	2.5 kg (5.5 lbs)	< 20 W (*35 W)
PCU	4,195 cm3 (256 in3)	4.8 kg (10.5 lbs)	< 3 W
VMS	328 cm3 (20 in3)	1.4 kg (3.0 lbs)	< 3 W *with heat on

Navigation/Attitude Performance	ATACS-24
GPS/INS Position Accuracy (CEP)	10 m
INS/VMS Position Accuracy (CEP)	< 0.25 % DT
GPS/INS Altitude (PE)	10 m
INS/VMS Altitude (PE)	< 0.067 % DT
Heading Accuracy (RMS)	< 1 mils
Pitch-and-Roll Accuracy (RMS)	0.5 mils
Alignment Time	<5 min
Stored Heading	1.5 min

Input/Output	
Power Input	28 VDC
Interface	MUXBUS 1553, RS-422, Ethernet

Operational Ranges	SYSTEM QUALIFIED TO SEVERE ENVIRONMENTS
Acceleration	> 30 g, all axes
Attitude	Unlimited (Roll, Pitch, Azimuth)
Attitude Acceleration	10,000 °/s2
Temperature	-40 to 55 °C (-40 to 131 °F)

ON COURSE. ON TARGET. ON POINT.

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