

Automated Tactical Artillery Control System



Chief of Section Display



Gunner's Display Unit



Driver's Display Unit



Miniature Integrated Land Navigation



Power Control Unit



Vehicle Motion Sensor

Accurate Pointing and Navigation Capabilities

The Automated Tactical Artillery Control System (ATACS) is an all-inclusive fire control system providing accurate pointing and navigation capabilities in a highly-adaptable package. ATACS enhances weapon agility, autonomy, survivability, and lethality in battlefield environments while maintaining rapid deployment with accurate gun aiming.

Composed of multiple elements of a fire control system, the adaptive ATACS allows the integrator to select components required to meet the needs of the program. The Miniature Integrated Land Navigation (MILNAV®) and the Chief of Section Display (CDU) are considered primary elements since all navigation and attitude data are computed within the MILNAV and then sent to the CDU.

Features & Benefits

- ✓ Simplified Installation
- ✓ Automated Artillery Fire Control
- ✓ High-Accuracy Navigation & Positioning
- ✓ Precision Aiming
- ✓ Accelerated Fire Support
- ✓ Bolt-On Package

ATACS Product Specifications

System Characteristics		
Size	MILNAV CDU Driver's Display Unit (DDU) Gunner's Display Unit (GDU) Power Control Unit (PCU) Vehicle Motion Sensor (VMS)	8,849 cm ³ (540 in ³) 8,931 cm ³ (545 in ³) 3,900 cm ³ (238 in ³) 3,900 cm ³ (238 in ³) 4,195 cm ³ (256 in ³) 328 cm ³ (20 in ³)
Weight (max weight)	MILNAV CDU DDU GDU PCU VMS	9.1 kg (20.0 lbs) 8.0 kg (17.6 lbs) 2.5 kg (5.5 lbs) 2.5 kg (5.5 lbs) 4.8 kg (10.5 lbs) 1.4 kg (3.0 lbs)
Power	MILNAV CDU DDU GDU PCU VMS	< 30 W < 58 W < 35 W < 35 W < 3 W < 3 W
Operational Ranges		
Acceleration	> 30 g, all axes	
Attitude (Roll, Pitch, Azimuth)	Unlimited	
Attitude Acceleration	10,000 °/s ²	
Temperature	-40 to 55 °C (-40 to 131 °F)	
Input/Output		
Power Input	28 VDC	
Interface	SDLC, RS-422	
Navigation/Attitude Performance	ATACS-16	ATACS-24
GPS/INS Position Accuracy (CEP)	10 m	10 m
INS/VMS Position Accuracy (CEP)	< 0.55 % DT	< 0.25 % DT
GPS/INS Altitude (PE)	10 m	10 m
INS/VMS Altitude (PE)	< 0.15 % DT	< 0.067 % DT
Heading Accuracy (RMS)	< 5 mils	< 1 mils
Pitch-and-Roll Accuracy (RMS)	0.5 mils	0.5 mils