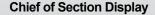
Automated Tactical Artillery Control System









Power Control Unit



Miniature Integrated Land Navigation

Gunner's Display Unit



Driver's Display 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)	4,195 cm³ (256 in³)	
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 °/s²		
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	ls < 1 mils	
Pitch-and-Roll Accuracy (RMS)	0.5 mils	0.5 mils	