



Accelerate Your Time-to-Mission™

FCT-35CP0D - Fire Control & Targeting System



Made in the USA
Certified Small Business

Off-the-shelf, 5-slot chassis designed for remote rugged environment operation

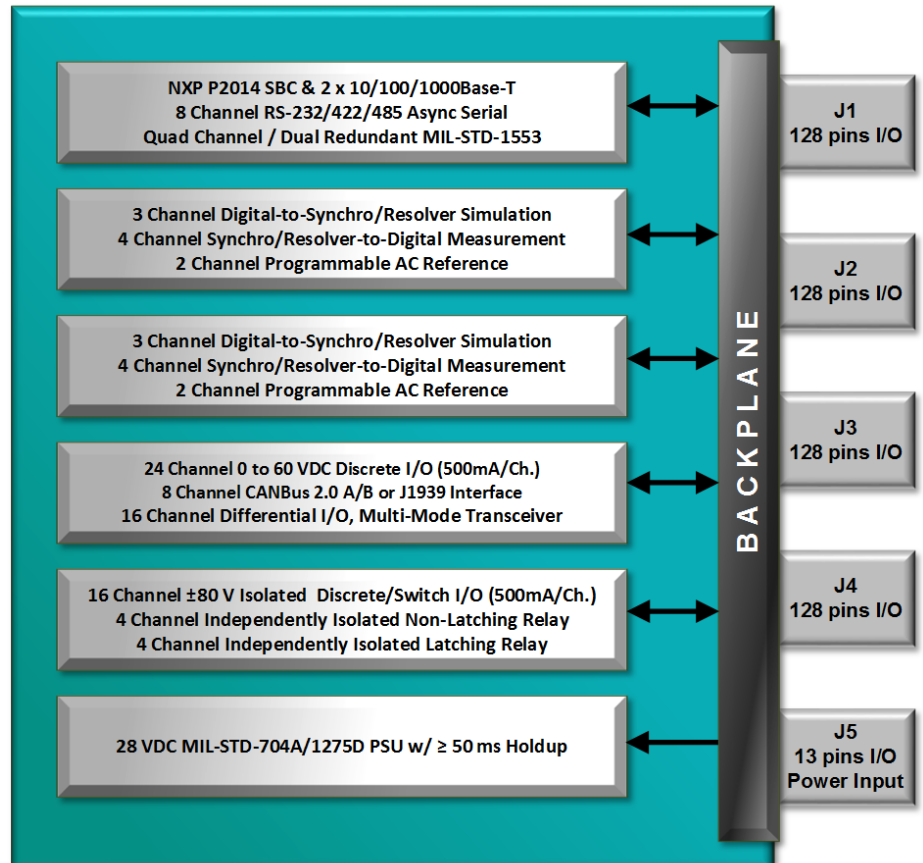
NAI designs **Fire Control & Targeting systems** (FCT) around core COTS technology building blocks, offering our customers readily available, interoperable, field-proven (systems or subsystems) designed to withstand the rigors of harsh, SWaP-constrained environments. The **FCT-35CP0D** is a pre-configured, rugged system with a PowerPC™ NXP® P2041 processor. It is ideally suited to support a multitude of military/aerospace applications that require 3-axis precision, dual-speed synchro drive and measurement with RS-422/423/485 Serial Communications; Dual-Redundant, Quad Channel MIL-STD-1553B; Digital-to-Synchro Simulation, Synchro-to-Digital Measurement; AC Reference; Discrete I/O; CANBus (CAN 2.0 A&B or J1939); Differential Transceiver; Latching Relays and Dual-Port Gig-E Ethernet.

The FCT-35CP0D delivers an off-the-shelf, preconfigured hardware solution that accelerates deployment of SWaP-optimized systems in rugged air, land and sea applications. Pairing the FCT-35CP0D hardware with your application will accelerate your time to mission!



Features

- Meets or exceeds MIL-STD-461F and MIL-STD-810G requirements
- VxWorks OS
- <15 lbs. typical
- Built-in-Test (BIT)
- COSA® architecture
- Conduction cooled SWaP
- 28 VDC power @ 75 W, typical



Architecture

With our exclusive, modular, interoperable **Custom on Standard Architecture™ (COSA®)**, NAI's fire control & targeting systems seamlessly integrate with our high-density, **intelligent multifunction I/O boards**, containing highest packaging density and greatest flexibility of any multifunction I/O board in the industry, and can be deployed rapidly with no NRE.

Applications

An FCT from NAI provides rugged dependability, precise threat evaluation and other advantages during critical, tactical air, land and sea missions where compact size, low weight and low-power systems are required. Dynamic, high performance, FCT systems from NAI can be applied to a broad spectrum of applications to control a multitude of sensor and command interfaces, such as, pitch, roll and yaw inputs, which need to be maintained to ensure steady "on target" aim and control in "on-the-move" air, land or sea gunships. Other critical applications include targeting of "line-of-sight" communications, radar, and laser guidance.

Continuous Background Built-In-Test (BIT)

BIT monitors the status of all I/O during normal operations and is totally transparent to the user. SBC resources are not consumed while executing BIT routines. This simplifies maintenance, assures operational readiness, and reduces life-cycle costs and keeps your system mission-ready.

Single-Source Efficiency

Eliminate man-months of integration with a configured, field-proven system from NAI. Requirements review through deployment is a seamless experience as all design, state-of-the-art manufacturing, assembly and test are performed— by one trusted source. All facilities are located in the U.S. and optimized for high-mix/low volume production runs and extended lifecycle support.

Software

Software support includes Wind River® VxWorks®. All I/O and communications library Software Support Kits (SSKs) are supplied free of charge.

Target Environment

All products are designed to operate under extreme temperature, shock, vibration and EMI environments. NAI's systems are designed to meet or exceed MIL-STD-461F and MIL-STD-810G requirements.

MIL-STD-461F requires proper shielded cables and systems practices.

Specifications are subject to change without notice.

All product and company names are trademarks or registered trademarks of their respective holders.