



DON'T LET A BATTERY STOP YOU



LAND



MARINE



AVIATION



SPACE



WEAPON SYSTEMS

## Keeping the F16 in the air

The F16, like most aircraft, carries an Inertial Navigation Unit (INU) that is powered by a separate battery. This independent power source assures reliable operation even if the main battery fails. Lockheed Martin specifies a maximum shelf life of five years for this nickel-cadmium battery.

The US Navy had purchased a large stock of INU batteries earlier. During the Yugoslavian war, they realized to their dismay that the five-year limit was being exceeded and the batteries could no longer be used. Grounding all F16s was discussed at one of their high-level meetings. This is when Lockheed Martin called Cadex to assist in the testing of these batteries in storage. Cadex supplied the US Air Force with several battery analyzers. With the analyzer's Prime function, the US Air Force verified that the INU battery can in fact exceed the five-year limit. The battery specifications were changed for the upcoming mission, the F16 kept flying and the war was won.



## Partnering with our Allies



**BAE SYSTEMS**



3,200+ battery adapters, including:

Bren-Tronics  
Elbit Tadiran  
Harris  
ISCO

Racal  
Ruag  
Saft  
Tadiran

Thomson CSF  
Walter Dittel



## OUR STORY

For over 35 years, Cadex Electronics has been at the leading edge of battery technology. Serving customers in over 100 countries globally, our world-class team empowers local and global clients in getting the most out of their mobile power applications, from Battery to Charging and Lifecycle management technologies.

35+  
years in business

 Canadian  
Controlled  
Goods  
Directorate

ISO  
ISO 9001 Certified

## ENGINEERING EXPERTISE



### Charger & Analyzer Design

- Power Management
- PCBs
- Charging Algorithms
- Protection Circuits



### Battery Design

- All chemistries
- Smart Battery Management Systems
- Designed for Critical Environments



### Electro-Mechanical Design

- Plastics and Metals
- Control Circuits and PCBs



### Embedded Software

- User interface
- System Communications



### PC Software Applications

- Data Management
- Reporting and Analysis



### Regulatory & Compliance

- CSA, UL, CE, PSE, FDA
- ISO9001, ISO13485



# TRUST YOUR POWER TO WIN

For decades, armed forces, defense contractors, and government agencies worldwide have relied on Cadex to ensure their mobile power applications perform as expected in mission-critical situations. We won't let you down.

See how we can help you get further, and win, today



## C7X00 Battery Analyzers

Cadex Battery Maintenance Systems ensure that all batteries meet specified equipment requirements and reliable life-span operation. The C7x00 family of analyzers allow users to test, track, label, and maintain fleets of batteries to ensure their equipment is always ready to go and save money on unnecessary battery replacements.



Keep track of your fleet of batteries, run Quality reports and service large quantities of batteries. All from the Cadex BatteryShop™ software with a database of 3,000+ batteries



Print service reports or service labels to attach to the batteries to simplify battery management. With Autoprint, a label will print when the battery is removed



## C8000 Advanced Battery Testing System

Capture load signatures and then perform simulated battery runtime by replaying the stored data. You can also control a thermal chamber, external load bank or other accessories with one of the most powerful battery testing tools in the market.

- Device Simulation helps you choose the right battery
- Life Cycle Testing helps you characterize the battery
- Custom Programming helps you monitor quality and performance
- Service Programs help you maintain the battery



## Conditioning Chargers Desk, Solar & Mobile

In 1, 2 and 6-bay configuration and smart battery adapters, allows simultaneous charge of Li-Ion, NiMH and NiCad batteries. The 2-bay charger operates by solar panel, off vehicle power and the AC grid.

Redundant algorithms provide safe charging of good and bad batteries at extreme temperatures.

The UCC family of Chargers allow you to recondition NiCad and NiMH batteries, and calibrate and reactivate Li-Ion batteries with built-in functions such as Boost.



## Custom Battery Packs & Chargers

Full custom in-house product development:

- Full integration of battery pack and charging systems
- Rapid prototyping of design concepts
- Sophisticated BMS designs including custom firmware for data collection and monitoring
- Customized solutions tailored to difficult and complex requirements (Intrinsically Safe, etc)
- Rugged custom enclosures
- Full Test Laboratory



YOUR LIFE. EMPOWERED



[cadex.com/military](http://cadex.com/military)