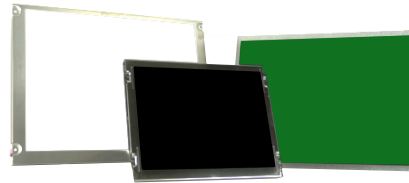
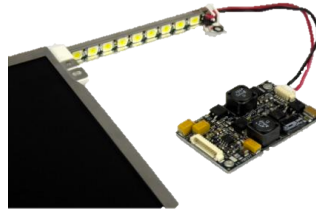
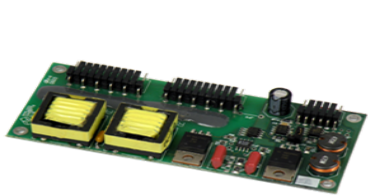




Company Overview

INNOVATION IN POWER CONVERSION TECHNOLOGY



Company Overview

Applied Concepts

- Applied Concepts was formed in 1998
- ISO 9001:2011 Certified
- Manufacturer of DC/AC **CCFL Inverters** for LCD Backlighting, Non-Display Lighting, & Specialty Applications
- ACI also Designs & Manufactures **LED Drivers, Rails, High-Bright (HB) Displays, Class A, B, & C NVIS Displays**, and LED **Accessories**
- In addition to growing our LED Product lines we're also diversifying into **Non-Display Applications** such as solid state lighting, architectural lighting, high-voltage power management, and related markets.

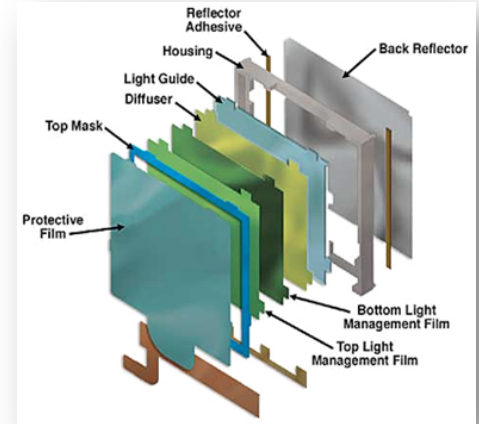


Our Focus

ACI Designs and Manufactures specialty power conversion systems for a wide range of highly-specialized applications spanning the Military, Marine, Aviation, Medical, and Industrial/Commercial markets.

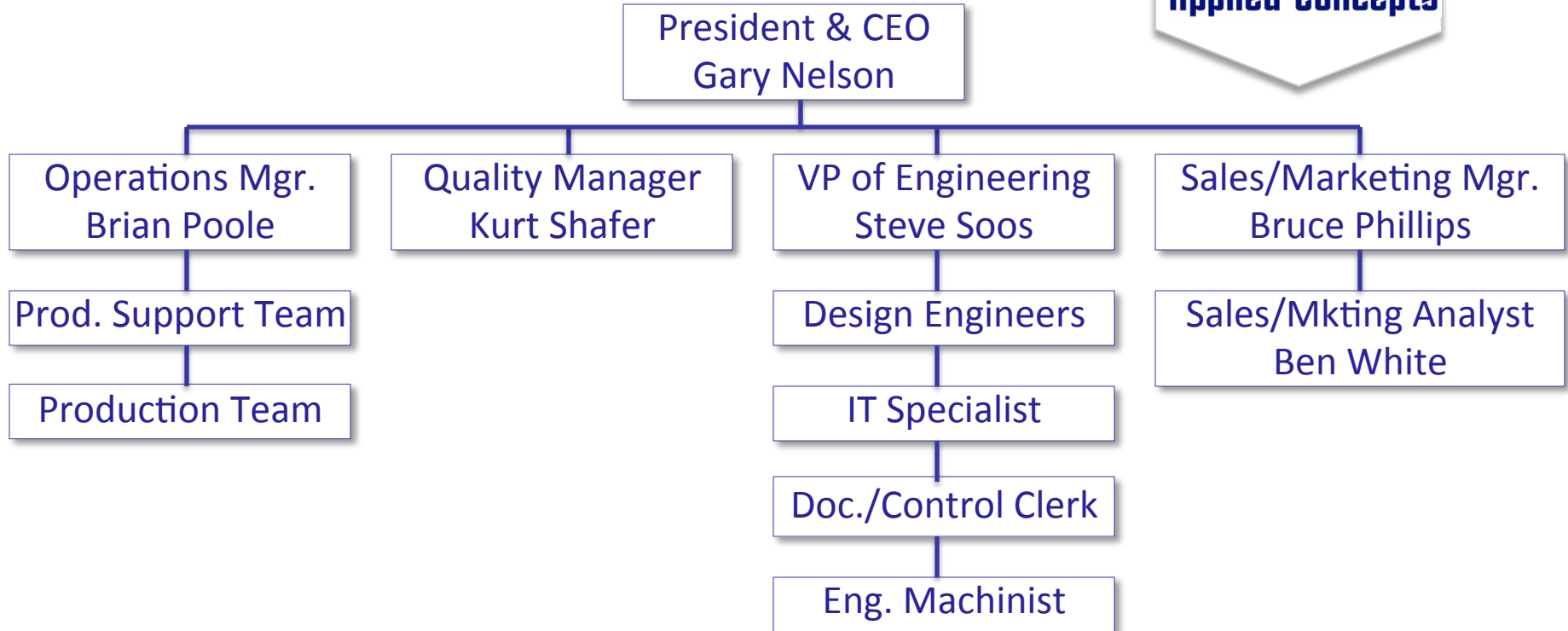
- We design all of our products to maximize MTBF with the majority of our products exceeding 75,000 hour lifetimes.
- Our line of High-Bright & NVIS solutions are recognized as the gold standard throughout the Display Industry. Side-by-side, our displays consistently out-perform the competition.
- ACI is committed to supporting our customers 100% - by delivering quick-turn custom designs and unmatched engineering support and customer service

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Our Organization

Applied Concepts

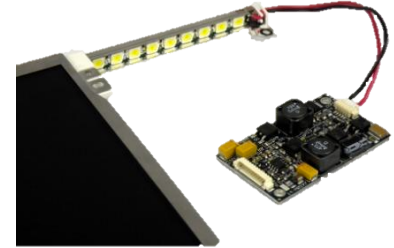


Our Strengths

All of our LED Drivers have an integrated micro-controller that allows us to provide:

- Ultra-wide range dimming (3,000:1)
 - Variety of Dimming Curves:
 - Linear, Logarithmic, Digital-View, etc.
 - Adjustable Brightness range
 - Capable of accepting a variety of interfaces
- Our Engineering team is always available should you have any design questions or need to trouble-shoot your applications.
 - Known as the “Tweak” squad – our engineering team delivers painless quick-turn solutions customized to any specification.
 - We stand behind our products and their specs 100%
 - All of our specs are measured in realistic operating environments
 - We strive to maintain the shortest lead times in the industry
 - All of our products are domestic source, 100% Manufactured in the USA

Applied Concepts

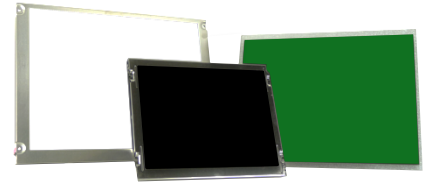
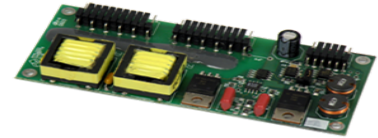



**PROUDLY MADE IN
AMERICA**

Product Offerings

- DC to AC CCFL Inverters
- I-Drive Series of LED Drivers (8 Platforms)
- Digital View plug-and-play solutions
- High-Bright LED Modified Displays
- High-Bright + NVIS LED Modified Displays
- Dim-Nit – factory panel dimming control board
- I-Nit – ambient light-sensing accessory
- Inverters & Drivers for non-display applications – mobile devices, high-voltage power supplies, architectural lighting, UV lighting, and much much more

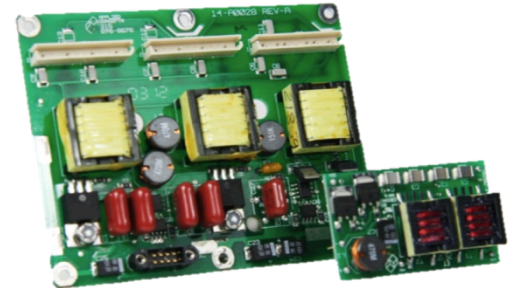
Applied Concepts



CCFL Inverters

Applied Concepts

- DC to AC inverters with constant current outputs
 - Stable, ultra-wide range dimming for optimal performance
 - High-voltage outputs are open/short-circuit protected & phas-locked
 - Input voltage regulated platforms available
 - Zippy cross-reference units available
 - All of our transformers are wound in-house by ACI
 - Accepting a variety of inputs:
 - Analog, digital, ALS, & luminance/temperature feedback
 - All new inverter designs are RoHS approved
 - Home of the AC-1386D, powering the GE Dash 4000 & 5000 monitors
- None of our products have an EOL, we can always supply you with repair/replacement inverters to keep your products running.***

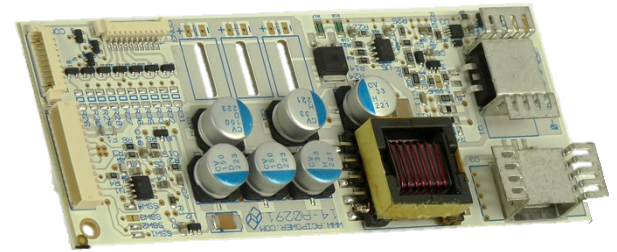


LED Driver Capabilities

Our drivers power everything we do here at ACI, from supporting factory panels to lighting our HB and NVIS Modifications, our I-Drive series of LED Drivers rank among the best in the industry for performance and reliability.

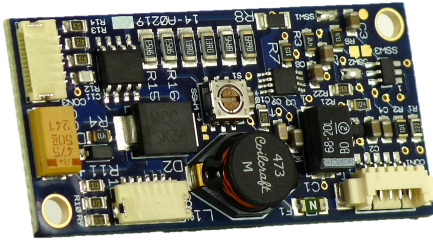
- Each driver has an onboard Micro-Controller providing:
 - **Ultra-wide range dimming** (3,000:1)
 - Variety of Dimming Curves:
 - Linear, Logarithmic, Digital-View, etc.
 - **Adjustable Brightness** range
 - Capable of accepting a variety of interfaces
- Satisfies the **RE-101 compliance** for reduced EMI
- Our team of experienced Engineers deliver:
 - **Quick-turn** customizations & support
 - Tuning of specific input voltage ranges
- **Ruggedized** for harsh environments with extended MTBF
- Drop-In form factors available upon request

Applied Concepts



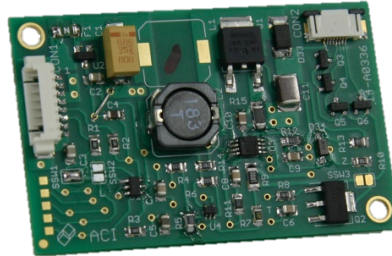
I-Drive LED Drivers

Applied Concepts



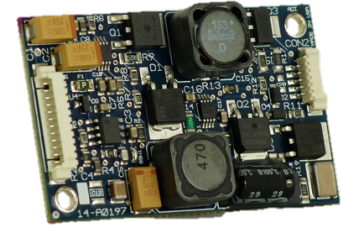
I-Lite (ACI-A...)

- Supplies up to 10.8 Watts
- Single or Multi-Channel
- Smallest profile driver



I-Drive 2 (ACI-B...)

- Supplies up to 17 Watts
- Parallel Channels
- Op-Amp controlled circuit



I-Drive 3 & 4 (ACI-C... & ACI-D...)

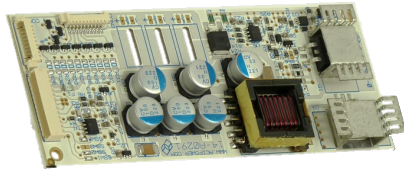
- Both supply up to 15 Watts
- Single Channel Design
- Same circuitry, different form factors for drop-in replacement

I-Drive LED Drivers

Applied Concepts

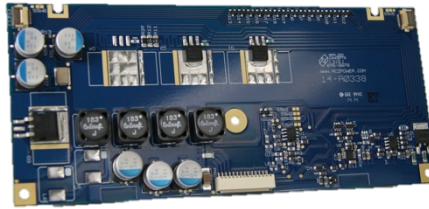
I-Drive 5 (ACI-E...)

- Supplies up to 30 Watts
- Series & Parallel Channel versions
- Dual-Mode functionality available



I-Drive 6 (ACI-F...)

- Supplies up to 65 Watts
- 12V and 24V input versions
- Dual Mode functionality available



I-Drive 7 (ACI-G...)

- Supplies up to 60-80 Watts
- 12V and 24V input versions
- Improved circuit design:
 - better heat dissipation, lower profile



I-Drive 8 (ACI-H...)

- Supplies up to 75-120 Watts
- 12V and 24V input versions
- Improved circuit design:
 - better heat dissipation, lower profile

High-Bright (HB) Displays

Applied Concepts

ACI is recognized industry-wide as a leading manufacturer of Sunlight-Readable HB Displays & Kits promising superior performance & reliability:

- **Ruggedized** for Harsh Environments (Military, etc.)
- **Max luminance, uniformity, & half-life** (75,000 hrs)
- Onboard Micro-Controller allows:
 - **Ultra-wide range dimming** (3,000:1)
 - Variety of Dimming Curves:
 - Linear, Logarithmic, Digital-View, etc.
 - Adjustable Brightness range
 - Capable of accepting a variety of interfaces
- Ambient Light Sensor (ALS) add-on available
- Available as Modified **Displays or LED Rail Kits**
 - Modified Displays built from **Customer-Consiged or ACI-Supplied Programs**



HB+NVIS Displays

Applied Concepts

All of our HB/NVIS Displays are Full-Up Custom, Dual-Mode Designs offering the very best Day & Night Performance:

- **Dual-Mode** capability with Single LED Driver & Rail
- **Fully-Integrated NVIS** Design, No Filters Required
- Guaranteed MIL STD 3009 **Class A, B, & C** Compliance
 - Additionally, **Low EMI** Circuit/Driver topology
- Plus all of the features available in our HB Displays
 - **Ruggedized** Design for Harsh Environments
 - Onboard **Micro-Controller** (Custom Dimming, etc.)
 - Accepting various Interfaces, including ALS
- Only Modified Displays available (no Kits), built from **Customer-Consiged or ACI-Supplied** Programs

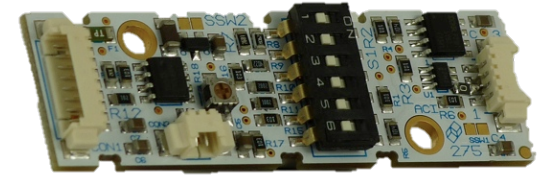


Dim-Nit & I-Nit

Applied Concepts

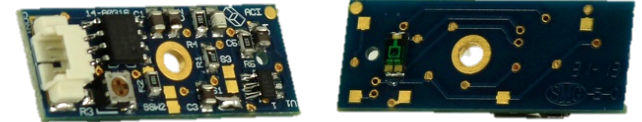
The Dim-Nit is a dimming control board that allows factory panels with on-board micros to achieve ACI's Ultra-wide range dimming.

- Onboard dip-switch offers linear or logarithmic curves, analog or PWM control, and enable control.
- Small form factor (2.25" x 0.7" x 0.215" - L x W x H)
- Ultra Wide-range dimming (3,000:1)
- +5V reference available to user application
- Reduced cost version available with specific control features



The I-Nit is an ALS adaptor board that automatically adjusts brightness based on observable environmental conditions.

- Easily added to factory panels & ACI modified displays
- Customizable dimming curve & output signals
- Temperature & light sensitive versions available



Target Markets

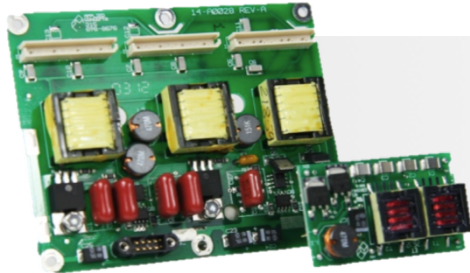
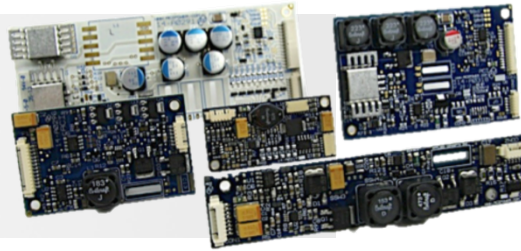
Applied Concepts

- Applied Concept's Engineering team develops power conversion solutions for highly specialized applications in **Military, Avionics, Marine, Medical, Industrial, Non-Display**, and other **Commercial** markets.
- In the Display industry, we work directly with every segment of the supply chain – OEM's, Distributors, Value-Added Resellers, and direct to End-Customers
- Our Sales & Engineering teams are customer-centric meaning that we will accommodate any request from one-off requests and customized versions to support mass-production orders.



Contact Us

ACI's I-Drive Series of **LED Drivers** are ruggedized, constant current drivers with ultra-wide range dimming and an on board micro-controller that can be tuned for any backlight application.



In addition to LED Drivers, ACI is your trusted source for **CCFL Inverters** to prolong the life of your existing displays and other CCFL applications.

Applied Concepts, Inc.

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