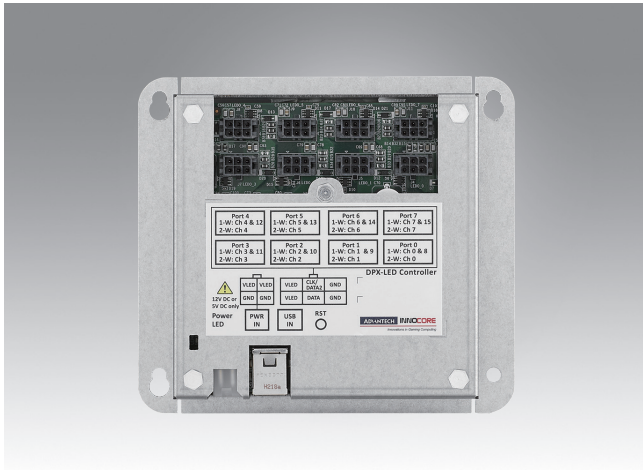


DPX-LED

Intelligent LED Strip Light Controller



Features

- Supports 16x single-wire channels or 8x SPI dual-wire LED channels, Up to 4096 LEDs total
- User friendly 'VibranceFX' Application software (Windows) for pattern creation.
- Pre-stored pattern sequence recall or realtime LED color setting API
- Drop-in Fadecandy replacement
- Fully customizable pattern and sequence generation plus default patterns and sequences
- Multiple independently running sequences with software API for real-time control, live adjustments and status feedback
- Onboard storage for patterns and sequences
- Long term reliability & availability

Introduction

The DPX-LED is an industrial grade 16-channel (single-wire) / 8-channel (SPI dual-wire) LED controller suitable for a wide range of applications requiring visual enhancement. Up to 256, tri-color or quad-color LEDs can be supported per channel (16 channels). The LEDs can also be installed sequentially for the appearance of longer strips. Customized LED sequences are easily developed using the 'VibranceFX' GUI (Windows) with a range of default patterns included. Sequences can be stored in on-board non-volatile memory and executed automatically, or manipulated in real-time from the host PC. The custom version of the Fadecandy server allows customers to drop in the DPX-LED in place of hard to find Fadecandy original hardware for stunning realtime lighting effects.

Specifications

Control	uC	32-bit ARM® Cortex®-M7 @480MHz
Storage	On Board Flash	Dual QSPI Pattern/Data/Animation storage (32 MB)
LED's	Channels	16x single-wire or 8x SPI dual-wire interface
	Quantity	4096 or 2048 total per DPX-LED module 256 LEDs per channel
Connectors	Type	Tri and Quad color
	USB	1 x 90° USB 2.0 Type B (connection to host PC)
	LED Strip	2x3 Way Microfit (x8)
Power	Power	2x2 Way Minifit Jr
	Reset	1 x Vertical JST B6B-PH
Environment	Thermal	Operating: 0 ~ 60° C
Physical	Dimensions	132 x 118 x 20 mm

