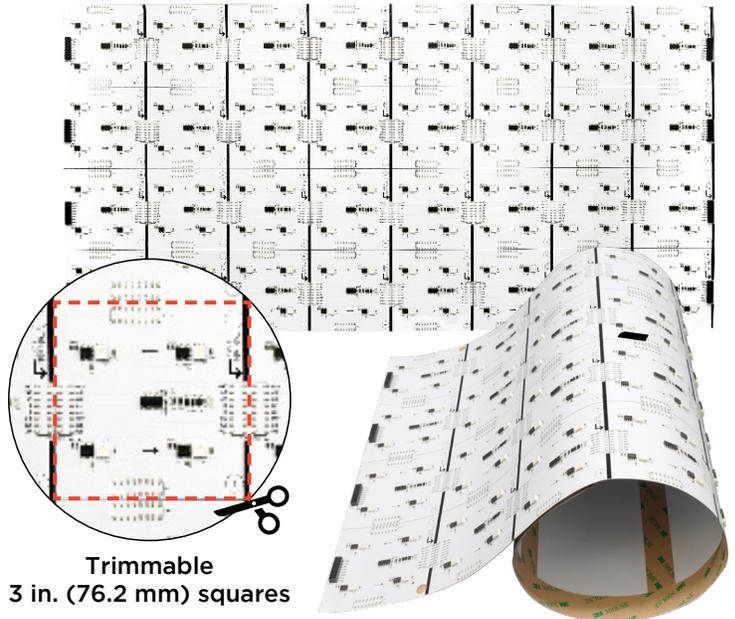


Date	Project
Notes	

## PIXEL FLEXIBLE BACKLYTE

Pixel Flexible BackLyte lets you program and control individual color changing pixels for precision lighting effects. The Pixel Flexible BackLyte is engineered to backlight translucent objects such as onyx, stone and resin panels – even in curved applications. Now with improved efficacy and lumen output, 24V Pixel Flexible BackLyte offers amazing light consistency and clarity. Each nominal 1 x 2 ft (305 x 610 mm) rectangular panel features 32 cuttable 3 in. (76.2 mm) square sections that contain four programmable color changing LEDs. Bend, cut and connect our Pixel Flexible BackLyte sheets to match the size and shape of your custom project.

- Flexible 12.01 x 24.02 in. (305 x 610 mm) sheet
- 32 cuttable 3 in. (76.2 mm) squares
- 45 W/sheet (22.5 W/sq ft, 242.2 W/sq m)
- 837.5 lm/sq ft (9014.77 lm/sq m), 38.5 lm/W (all on)
- 128 RGB pixels per sheet spaced at 1.5 in. (38.1 mm)
- Program each individual LED pixel
- Uses SPI controls
- 3.94 in. (100 mm) min. bending radius
- 24 VDC
- Daisy chain up to 8 full sheets
- IP20 for indoor use



**Trimmable**  
**3 in. (76.2 mm) squares**



## ORDERING GUIDE

Category	Voltage	IP Rating	Wattage	Color or Color Temperature
FBLADD	24	20	45	RGB
FBLADD - Pixel Flexible Backlyte	24 - 24 VDC	20 - IP20	45 - 45 W/sheet	RGB - Red, Green, Blue

## AVAILABLE COLORS



### ACCESSORIES:

1. Jumper  
ADDBLJUMP
2. Lead PCB  
ADDBLHEADER
3. Lead Cable  
ADDBLCBLFB1000 (3 ft 3.3 in. | 1 m)  
ADDBLCBLFB2000 (6 ft 6.7 in. | 2 m)  
ADDBLCBLFB3000 (9 ft 10 in. | 3 m)
4. Easy Connect  
DIGIEC

**NOTE:** Customization still available upon request.

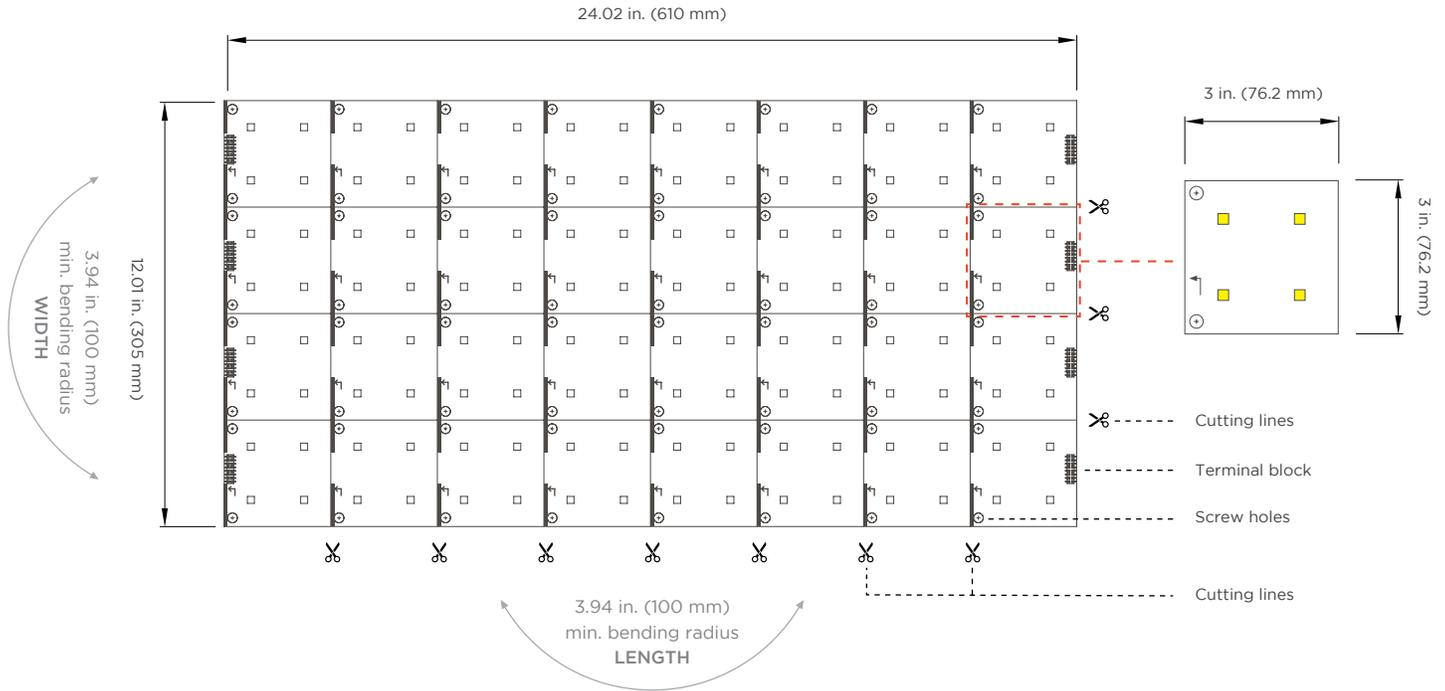
**NOTE:** Acolyte recommends Belden 9729 shielded cable and Cat5e RJ45 cable for all connections.

## SPECIFICATIONS

Operating Voltage	24 VDC
Power Consumption	45 W/sheet (22.5 W/sq ft / 242.2 W/sq m)
Luminous Efficacy	38.5 lm/W
IC Code	GS8208
Beam Angle	120°
LEDs per sheet	128
LED spacing	1.5 in. (38.1 mm)
Pixels per fixture	128
Color Temperature	RGB
Luminous Flux	1675 lm per sheet
Minimum Bend Radius	3.94 in. (100 mm)
Protection Rating	IP20
Storage Temperature	-4 – 158 °F (-20 – 70 °C)
Operating Temperature	-4 – 140 °F (-20 – 60°C)
Dimensions (L x W)	12.01 x 24.02 in. (305 x 610 mm)
Warranty	2 years

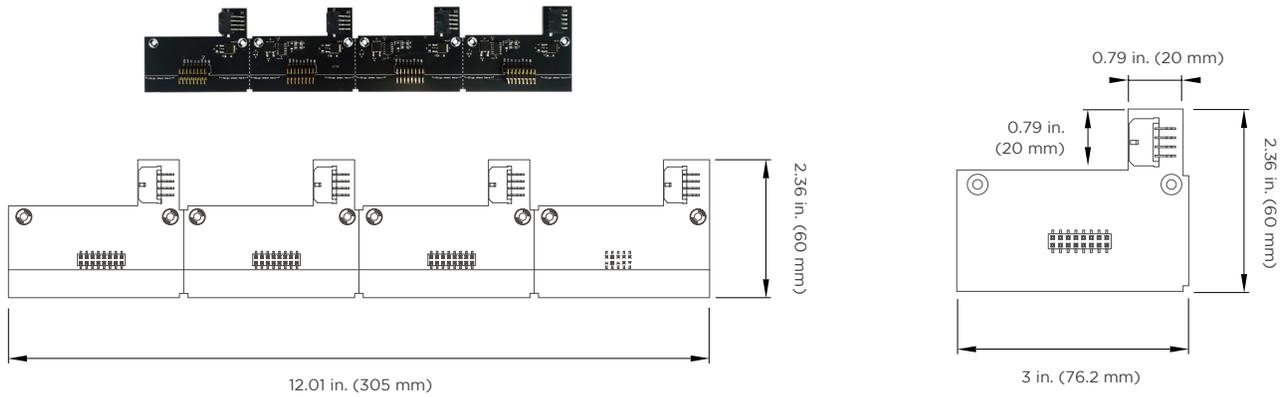
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**DIMENSIONS**



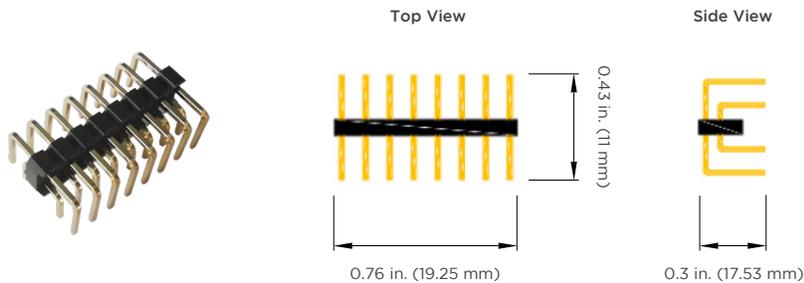
**LEADER PCB**

Part #: ADDBLHEADER



**JUMPER**

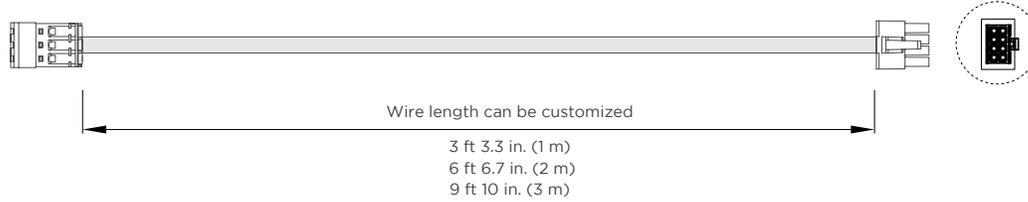
Part #: ADDBLJUMP



**NOTE:** Acolyte recommends Belden 9729 shielded cable and Cat5e RJ45 cable for all connections.

**LEADER CABLE (2 PIN TERMINAL WIRE)**

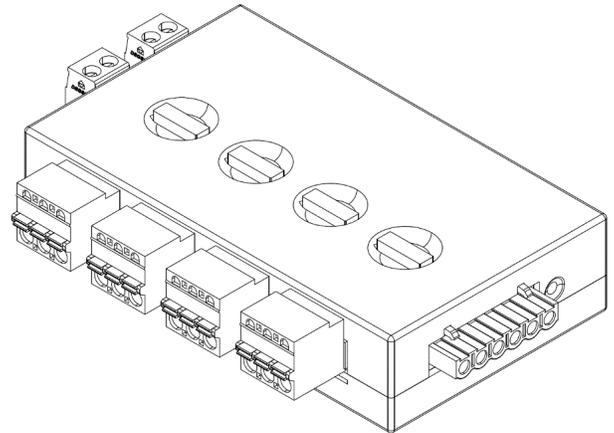
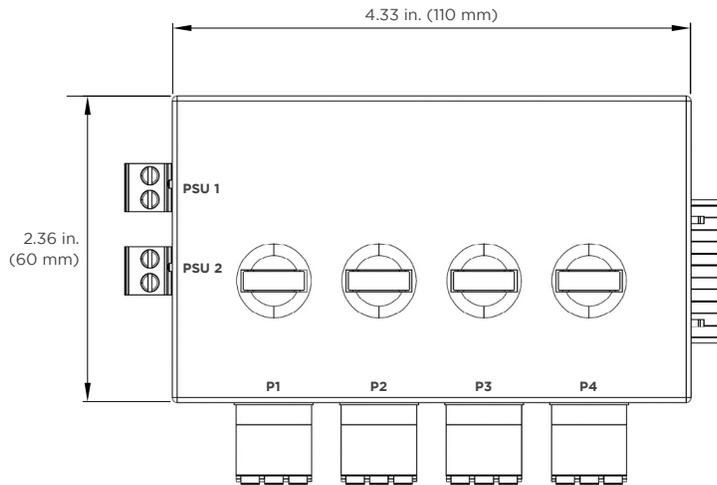
Part #:  
 ADDBLCBLFB1000 (3 ft 3.3 in. | 1 m)  
 ADDBLCBLFB2000 (6 ft 6.7 in. | 2 m)  
 ADDBLCBLFB3000 (9 ft 10 in. | 3 m)



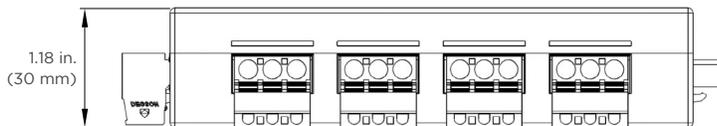
**EASY CONNECT**

Easy Connect is a plug and play connector that joins your C4 controller and power supply with your LEDs. No complex wiring required. Connect your power supply on one side and the input cable on the other.

Part #:  
DIGIEC

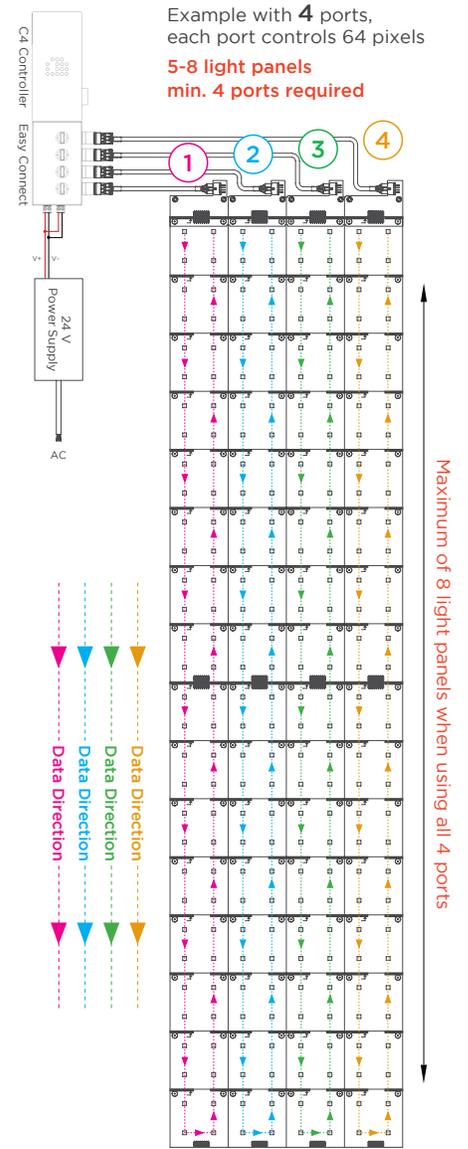
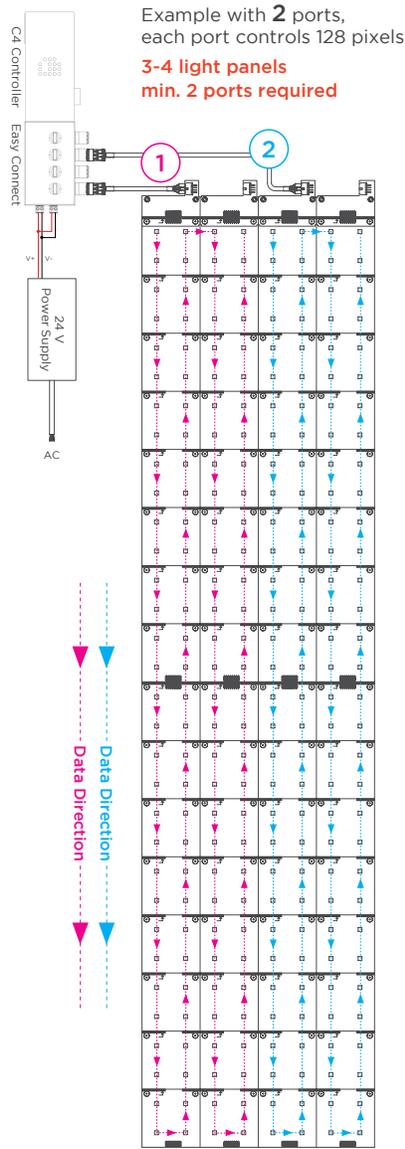
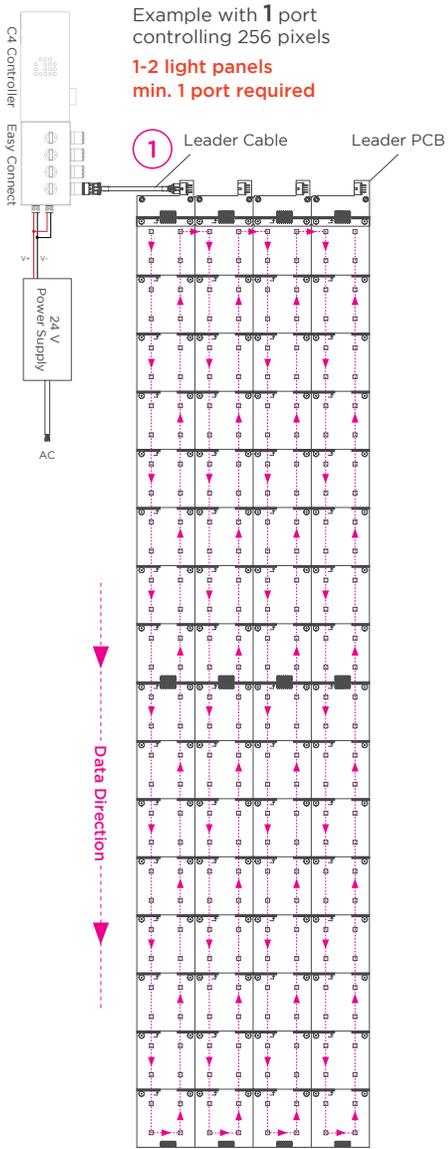


**NOTE:**  
 Easy Connect can supply a maximum of 30 amperes to the 4 outputs.  
**PSU 1** will supply power to output ports **P3** and **P4**;  
**PSU 2** will supply power to output ports **P1** and **P2**.  
 All output ports will have the same voltage output.



**NOTE:** Acolyte recommends Belden 9729 shielded cable and Cat5e RJ45 cable for all connections.

CONNECTIONS



# of Light Panels	Min. Ports Required	Min. Pixels per Port	Min. Channels per Port	Notes
1	1	128	384	Each port and input cable should not control more than 256 pixels.
2	1	256	768	
3	2	192	576	
4	2	256	768	
5	4	160	480	
6	4	192	576	
7	4	224	672	
8	4	256	768	

**NOTE:** Acolyte recommends Belden 9729 shielded cable and Cat5e RJ45 cable for all connections.

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**GLOBAL HQ**

320 Murray Hill Pkwy  
East Rutherford, NJ 07073  
U.S.  
T: (+1) 212 629 6830  
E: Sales-US@GENLEDBrands.com

**EUROPEAN HQ**

Hogeweyseiaan 119  
1382 JK Weesp  
Netherlands  
T: (+31) 346 235 000  
E: SalesEurope@GENLEDBrands.com

**MEINA HQ**

PO Box 371378, #823, Building 4EA  
Dubai Airport Free Zone  
Dubai, UAE  
T: (+971) 4 701 7901  
E: SalesMEINA@genledbrands.com

**ASIA-PACIFIC HQ**

Room 402, Building D  
Shenhi Tongchuang Science and Technology Park  
No. 16 Hongyin Road  
Xingqiang Community, Xinhua Street  
Guangming District, Shenzhen, China 518107  
T: (+86) 755 8529 0710  
E: Sales-Pacific@GENLEDBrands.com