DMX Receiver with 3 Channel PWM Driver Manual

A DMX receiver with 3 channels of Digilin's smoothed PWM transitions suitable for almost any common anode LED fitting.

Specifications

Digilin Stock Code	LDMX-PWM-3
Dimensions (mm)	138W x 63D x 31H
Weight	115g
Input Power	24VDC @ up to 6A
Communications	DMX or Colour Theme Controller
Outputs	3 low side switched PWM signals (24V common) @ 2A max per channel
DMX Load	0.25 Standard devices
Compliance	IEC CISPR 15

Safety Notes

Install in a dry, ventilated area.
Indoor use only.

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Introduction

The LDMX-PWM-3 (Figure 1) is a DMX receiver with three channels of PWM driven outputs for controlling constant current LED fittings, such as Digilin's RGB Taipan or Constant Current Linear Light Strips. The PWM outputs make use of Digilin's special smoothed PWM transitions software making variations in light output almost imperceptible even at low levels. In addition to DMX input, the LDMX-PWM-3 also has a connector for direct interfacing to Digilin's Colour Theme Controller, making a complete system simple to install and control.

Figure 1 Front and rear view of the LDM-PWM-3.

Installation

Connections

Figure 2 shows the connections on the LDMX-PWM-3. For standard operation, simply connect 24V to the power connector, the led fittings to the PWM outputs and either the Colour Theme Controller or a DMX source to control the light levels.

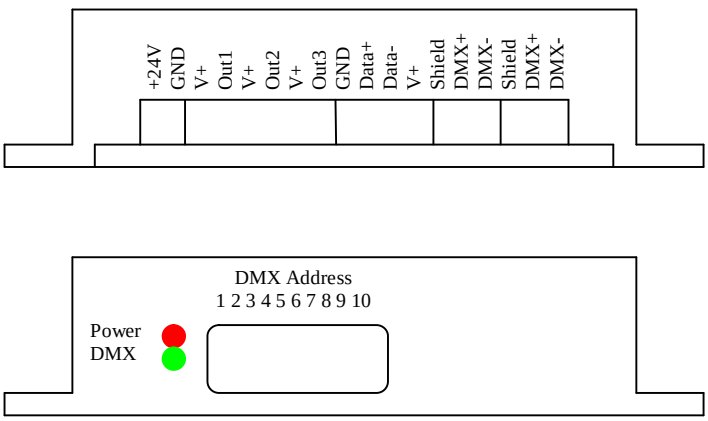

Figure 2 Connection diagram.

Operation

The LDMX-PWM-3 has a single 24VDC power supply. Once it is connected, the red power LED shown in Figure 2 will come on. If the unit is receiving good communications, the green DMX activity LED will also be on.

Setting Address

The DMX address is set using the first 9 switches of the DMX address switch. The address is set as a binary number (with switch 1 the LSB, Appendix A lists addresses and their corresponding switch settings). As the unit is a 3 channel receiver, it will respond to data in the set address, and the following 2 addresses in the DMX data stream. Therefore, the address should not be set to over 510. **Note:** that to use a Colour Theme Controller, the address must be set to 1.

Using With Colour Theme Input

In order to connect a Colour Theme Controller the DMX address should be set to 1 and the Input Select Switch (switch 10 of the DMX address switch, as shown in Figure 1) should be in the up position. When data is being correctly received, the green LED should be on. It is possible to connect further DMX receivers to this unit. They should be configured to operate with a standard DMX input (not a Colour Theme Input) with the DMX address set to 1.

Using With DMX Input

In order to use the LDMX-PWM-3 with a DMX feed simply set the desired address and connect the DMX feed to the DMX input. Remember to terminate the DMX feed at the end of the chain with a 120Ω resistor between the DMX + & - lines. When data is being correctly received, the green LED should be on.

Test Mode

The LDMX-PWM-3 has test mode which ramps each individual output up to full brightness then back off in sequence. This test mode is entered by setting the DMX address to 0 (all switches down). While in this mode, any incoming DMX data is ignored. Once the address is changed from 0, the unit will complete the current cycle of the test, then return to normal operation.

Fallback Output

By default, the LDMX-PWM-XX0CC-3/-RGB outputs will be set at 50% for all channels at start-up and loss of DMX signal.

Appendix A. DIP Switch Settings

Switch up = 1
Switch down = 0

Address	Switch								
	1	2	3	4	5	6	7	8	9
Test Mode	0	0	0	0	0	0	0	0	0
1	1	0	0	0	0	0	0	0	0
2	0	1	0	0	0	0	0	0	0
3	1	1	0	0	0	0	0	0	0
4	0	0	1	0	0	0	0	0	0
5	1	0	1	0	0	0	0	0	0
6	0	1	1	0	0	0	0	0	0
7	1	1	1	0	0	0	0	0	0
8	0	0	0	1	0	0	0	0	0
9	1	0	0	1	0	0	0	0	0
10	0	1	0	1	0	0	0	0	0
11	1	1	0	1	0	0	0	0	0
12	0	0	1	1	0	0	0	0	0
13	1	0	1	1	0	0	0	0	0
14	0	1	1	1	0	0	0	0	0
15	1	1	1	1	0	0	0	0	0
16	0	0	0	0	1	0	0	0	0
17	1	0	0	0	1	0	0	0	0
18	0	1	0	0	1	0	0	0	0
19	1	1	0	0	1	0	0	0	0
20	0	0	1	0	1	0	0	0	0
21	1	0	1	0	1	0	0	0	0
22	0	1	1	0	1	0	0	0	0
23	1	1	1	0	1	0	0	0	0
24	0	0	0	1	1	0	0	0	0
25	1	0	0	1	1	0	0	0	0
26	0	1	0	1	1	0	0	0	0
27	1	1	0	1	1	0	0	0	0
28	0	0	1	1	1	0	0	0	0
29	1	0	1	1	1	0	0	0	0
30	0	1	1	1	1	0	0	0	0
31	1	1	1	1	1	0	0	0	0
32	0	0	0	0	0	1	0	0	0
33	1	0	0	0	0	1	0	0	0
34	0	1	0	0	0	1	0	0	0
35	1	1	0	0	0	1	0	0	0
36	0	0	1	0	0	1	0	0	0
37	1	0	1	0	0	1	0	0	0
38	0	1	1	0	0	1	0	0	0
39	1	1	1	0	0	1	0	0	0
40	0	0	0	1	0	1	0	0	0
41	1	0	0	1	0	1	0	0	0
42	0	1	0	1	0	1	0	0	0
43	1	1	0	1	0	1	0	0	0
44	0	0	1	1	0	1	0	0	0
45	1	0	1	1	0	1	0	0	0
46	0	1	1	1	0	1	0	0	0
47	1	1	1	1	0	1	0	0	0
48	0	0	0	0	1	1	0	0	0
49	1	0	0	0	1	1	0	0	0
50	0	1	0	0	1	1	0	0	0
51	1	1	0	0	1	1	0	0	0
52	0	0	1	0	1	1	0	0	0
53	1	0	1	0	1	1	0	0	0
54	0	1	1	0	1	1	0	0	0
55	1	1	1	0	1	1	0	0	0
56	0	0	0	1	1	1	0	0	0
57	1	0	0	1	1	1	0	0	0
58	0	1	0	1	1	1	0	0	0
59	1	1	0	1	1	1	0	0	0
60	0	0	1	1	1	1	0	0	0

Address	Switch								
	1	2	3	4	5	6	7	8	9
61	1	0	1	1	1	1	0	0	0
62	0	1	1	1	1	1	0	0	0
63	1	1	1	1	1	1	0	0	0
64	0	0	0	0	0	0	1	0	0
65	1	0	0	0	0	0	1	0	0
66	0	1	0	0	0	0	1	0	0
67	1	1	0	0	0	0	1	0	0
68	0	0	1	0	0	0	1	0	0
69	1	0	1	0	0	0	1	0	0
70	0	1	1	0	0	0	1	0	0
71	1	1	1	0	0	0	1	0	0
72	0	0	0	1	0	0	1	0	0
73	1	0	0	1	0	0	1	0	0
74	0	1	0	1	0	0	1	0	0
75	1	1	0	1	0	0	1	0	0
76	0	0	1	1	0	0	1	0	0
77	1	0	1	1	0	0	1	0	0
78	0	1	1	1	0	0	1	0	0
79	1	1	1	1	0	0	1	0	0
80	0	0	0	0	1	0	1	0	0
81	1	0	0	0	1	0	1	0	0
82	0	1	0	0	1	0	1	0	0
83	1	1	0	0	1	0	1	0	0
84	0	0	1	0	1	0	1	0	0
85	1	0	1	0	1	0	1	0	0
86	0	1	1	0	1	0	1	0	0
87	1	1	1	0	1	0	1	0	0
88	0	0	0	1	1	0	1	0	0
89	1	0	0	1	1	0	1	0	0
90	0	1	0	1	1	0	1	0	0
91	1	1	0	1	1	0	1	0	0
92	0	0	1	1	1	0	1	0	0
93	1	0	1	1	1	0	1	0	0
94	0	1	1	1	1	0	1	0	0
95	1	1	1	1	1	0	1	0	0
96	0	0	0	0	0	1	1	0	0
97	1	0	0	0	0	1	1	0	0
98	0	1	0	0	0	1	1	0	0
99	1	1	0	0	0	1	1	0	0
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101	1	0	1	0	0	1	1	0	0
102	0	1	1	0	0	1	1	0	0
103	1	1	1	0	0	1	1	0	0
104	0	0	0	1	0	1	1	0	0
105	1	0	0	1	0	1	1	0	0
106	0	1	0	1	0	1	1	0	0
107	1	1	0	1	0	1	1	0	0
108	0	0	1	1	0	1	1	0	0
109	1	0	1	1	0	1	1	0	0
110	0	1	1	1	0	1	1	0	0
111	1	1	1	1	0	1	1	0	0
112	0	0	0	0	1	1	1	0	0
113	1	0	0	0	1	1	1	0	0
114	0	1	0	0	1	1	1	0	0
115	1	1	0	0	1	1	1	0	0
116	0	0	1	0	1	1	1	0	0
117	1	0	1	0	1	1	1	0	0
118	0	1	1	0	1	1	1	0	0
119	1	1	1	0	1	1	1	0	0
120	0	0	0	1	1	1	1	0	0
121	1	0	0	1	1	1	1	0	0

Address	Switch								
	1	2	3	4	5	6	7	8	9
122	0	1	0	1	1	1	1	0	0
123	1	1	0	1	1	1	1	0	0
124	0	0	1	1	1	1	1	0	0
125	1	0	1	1	1	1	1	0	0
126	0	1	1	1	1	1	1	0	0
127	1	1	1	1	1	1	1	0	0
128	0	0	0	0	0	0	0	1	0
129	1	0	0	0	0	0	0	1	0
130	0	1	0	0	0	0	0	1	0
131	1	1	0	0	0	0	0	1	0
132	0	0	1	0	0	0	0	1	0
133	1	0	1	0	0	0	0	1	0
134	0	1	1	0	0	0	0	1	0
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136	0	0	0	1	0	0	0	1	0
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141	1	0	1	1	0	0	0	1	0
142	0	1	1	1	0	0	0	1	0
143	1	1	1	1	0	0	0	1	0
144	0	0	0	0	1	0	0	1	0
145	1	0	0	0	1	0	0	1	0
146	0	1	0	0	1	0	0	1	0
147	1	1	0	0	1	0	0	1	0
148	0	0	1	0	1	0	0	1	0
149	1	0	1	0	1	0	0	1	0
150	0	1	1	0	1	0	0	1	0
151	1	1	1	0	1	0	0	1	0
152	0	0	0	1	1	0	0	1	0
153	1	0	0	1	1	0	0	1	0
154	0	1	0	1	1	0	0	1	0
155	1	1	0	1	1	0	0	1	0
156	0	0	1	1	1	0	0	1	0
157	1	0	1	1	1	0	0	1	0
158	0	1	1	1	1	0	0	1	0
159	1	1	1	1	1	0	0	1	0
160	0	0	0	0	0	1	0	1	0
161	1	0	0	0	0	1	0	1	0
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168	0	0	0	1	0	1	0	1	0
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174	0	1	1	1	0	1	0	1	0
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177	1	0	0	0	1	1	0	1	0
178	0	1	0	0	1	1	0	1	0
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186	0	1	0	1	1	1	0	1	0

Address	Switch								
	1	2	3	4	5	6	7	8	9
187	1	1	0	1	1	1	0	1	0
188	0	0	1	1	1	1	0	1	0
189	1	0	1	1	1	1	0	1	0
190	0	1	1	1	1	1	0	1	0
191	1	1	1	1	1	1	0	1	0
192	0	0	0	0	0	0	1	1	0
193	1	0	0	0	0	0	1	1	0
194	0	1	0	0	0	0	1	1	0
195	1	1	0	0	0	0	1	1	0
196	0	0	1	0	0	0	1	1	0
197	1	0	1	0	0	0	1	1	0
198	0	1	1	0	0	0	1	1	0
199	1	1	1	0	0	0	1	1	0
200	0	0	0	1	0	0	1	1	0
201	1	0	0	1	0	0	1	1	0
202	0	1	0	1	0	0	1	1	0
203	1	1	0	1	0	0	1	1	0
204	0	0	1	1	0	0	1	1	0
205	1	0	1	1	0	0	1	1	0
206	0	1	1	1	0	0	1	1	0
207	1	1	1	1	0	0	1	1	0
208	0	0	0	0	1	0	1	1	0
209	1	0	0	0	1	0	1	1	0
210	0	1	0	0	1	0	1	1	0
211	1	1	0	0	1	0	1	1	0
212	0	0	1	0	1	0	1	1	0
213	1	0	1	0	1	0	1	1	0
214	0	1	1	0	1	0	1	1	0
215	1	1	1	0	1	0	1	1	0
216	0	0	0	1	1	0	1	1	0
217	1	0	0	1	1	0	1	1	0
218	0	1	0	1	1	0	1	1	0
219	1	1	0	1	1	0	1	1	0
220	0	0	1	1	1	0	1	1	0
221	1	0	1	1	1	0	1	1	0
222	0	1	1	1	1	0	1	1	0
223	1	1	1	1	1	0	1	1	0
224	0	0	0	0	0	1	1	1	0
225	1	0	0	0	0	1	1	1	0
226	0	1	0	0	0	1	1	1	0
227	1	1	0	0	0	1	1	1	0
228	0	0	1	0	0	1	1	1	0
229	1	0	1	0	0	1	1	1	0
230	0	1	1	0	0	1	1	1	0
231	1	1	1	0	0	1	1	1	0
232	0	0	0	1	0	1	1	1	0
233	1	0	0	1	0	1	1	1	0
234	0	1	0	1	0	1	1	1	0
235	1	1	0	1	0	1	1	1	0
236	0	0	1	1	0	1	1	1	0
237	1	0	1	1	0	1	1	1	0
238	0	1	1	1	0	1	1	1	0
239	1	1	1	1	0	1	1	1	0
240	0	0	0	0	1	1	1	1	0
241	1	0	0	0	1	1	1	1	0
242	0	1	0	0	1	1	1	1	0
243	1	1	0	0	1	1	1	1	0
244	0	0	1	0	1	1	1	1	0
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246	0	1	1	0	1	1	1	1	0
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249	1	0	0	1	1	1	1	1	0
250	0	1	0	1	1	1	1	1	0
251	1	1	0	1	1	1	1	1	0

Address	Switch								
	1	2	3	4	5	6	7	8	9
252	0	0	1	1	1	1	1	1	0
253	1	0	1	1	1	1	1	1	0
254	0	1	1	1	1	1	1	1	0
255	1	1	1	1	1	1	1	1	0
256	0	0	0	0	0	0	0	0	1
257	1	0	0	0	0	0	0	0	1
258	0	1	0	0	0	0	0	0	1
259	1	1	0	0	0	0	0	0	1
260	0	0	1	0	0	0	0	0	1
261	1	0	1	0	0	0	0	0	1
262	0	1	1	0	0	0	0	0	1
263	1	1	1	0	0	0	0	0	1
264	0	0	0	1	0	0	0	0	1
265	1	0	0	1	0	0	0	0	1
266	0	1	0	1	0	0	0	0	1
267	1	1	0	1	0	0	0	0	1
268	0	0	1	1	0	0	0	0	1
269	1	0	1	1	0	0	0	0	1
270	0	1	1	1	0	0	0	0	1
271	1	1	1	1	0	0	0	0	1
272	0	0	0	0	1	0	0	0	1
273	1	0	0	0	1	0	0	0	1
274	0	1	0	0	1	0	0	0	1
275	1	1	0	0	1	0	0	0	1
276	0	0	1	0	1	0	0	0	1
277	1	0	1	0	1	0	0	0	1
278	0	1	1	0	1	0	0	0	1
279	1	1	1	0	1	0	0	0	1
280	0	0	0	1	1	0	0	0	1
281	1	0	0	1	1	0	0	0	1
282	0	1	0	1	1	0	0	0	1
283	1	1	0	1	1	0	0	0	1
284	0	0	1	1	1	0	0	0	1
285	1	0	1	1	1	0	0	0	1
286	0	1	1	1	1	0	0	0	1
287	1	1	1	1	1	0	0	0	1
288	0	0	0	0	0	1	0	0	1
289	1	0	0	0	0	1	0	0	1
290	0	1	0	0	0	1	0	0	1
291	1	1	0	0	0	1	0	0	1
292	0	0	1	0	0	1	0	0	1
293	1	0	1	0	0	1	0	0	1
294	0	1	1	0	0	1	0	0	1
295	1	1	1	0	0	1	0	0	1
296	0	0	0	1	0	1	0	0	1
297	1	0	0	1	0	1	0	0	1
298	0	1	0	1	0	1	0	0	1
299	1	1	0	1	0	1	0	0	1
300	0	0	1	1	0	1	0	0	1
301	1	0	1	1	0	1	0	0	1
302	0	1	1	1	0	1	0	0	1
303	1	1	1	1	0	1	0	0	1
304	0	0	0	0	1	1	0	0	1
305	1	0	0	0	1	1	0	0	1
306	0	1	0	0	1	1	0	0	1
307	1	1	0	0	1	1	0	0	1
308	0	0	1	0	1	1	0	0	1
309	1	0	1	0	1	1	0	0	1
310	0	1	1	0	1	1	0	0	1
311	1	1	1	0	1	1	0	0	1
312	0	0	0	1	1	1	0	0	1
313	1	0	0	1	1	1	0	0	1
314	0	1	0	1	1	1	0	0	1
315	1	1	0	1	1	1	0	0	1
316	0	0	1	1	1	1	0	0	1

Address	Switch								
	1	2	3	4	5	6	7	8	9
317	1	0	1	1	1	1	0	0	1
318	0	1	1	1	1	1	0	0	1
319	1	1	1	1	1	1	0	0	1
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321	1	0	0	0	0	0	1	0	1
322	0	1	0	0	0	0	1	0	1
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331	1	1	0	1	0	0	1	0	1
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333	1	0	1	1	0	0	1	0	1
334	0	1	1	1	0	0	1	0	1
335	1	1	1	1	0	0	1	0	1
336	0	0	0	0	1	0	1	0	1
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343	1	1	1	0	1	0	1	0	1
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368	0	0	0	0	1	1	1	0	1
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370	0	1	0	0	1	1	1	0	1
371	1	1	0	0	1	1	1	0	1
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373	1	0	1	0	1	1	1	0	1
374	0	1	1	0	1	1	1	0	1
375	1	1	1	0	1	1	1	0	1
376	0	0	0	1	1	1	1	0	1
377	1	0	0	1	1	1	1	0	1
378	0	1	0	1	1	1	1	0	1
379	1	1	0	1	1	1	1	0	1
380	0	0	1	1	1	1	1	0	1
381	1	0	1	1	1	1	1	0	1

Address	Switch								
	1	2	3	4	5	6	7	8	9
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383	1	1	1	1	1	1	1	0	1
384	0	0	0	0	0	0	0	1	1
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386	0	1	0	0	0	0	0	1	1
387	1	1	0	0	0	0	0	1	1
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392	0	0	0	1	0	0	0	1	1
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419	1	1	0	0	0	1	0	1	1
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435	1	1	0	0	1	1	0	1	1
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438	0	1	1	0	1	1	0	1	1
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441	1	0	0	1	1	1	0	1	1
442	0	1	0	1	1	1	0	1	1
443	1	1	0	1	1	1	0	1	1
444	0	0	1	1	1	1	0	1	1
445	1	0	1	1	1	1	0	1	1
446	0	1	1	1	1	1	0	1	1

Address	Switch								
	1	2	3	4	5	6	7	8	9
447	1	1	1	1	1	1	0	1	1
448	0	0	0	0	0	0	1	1	1
449	1	0	0	0	0	0	1	1	1
450	0	1	0	0	0	0	1	1	1
451	1	1	0	0	0	0	1	1	1
452	0	0	1	0	0	0	1	1	1
453	1	0	1	0	0	0	1	1	1
454	0	1	1	0	0	0	1	1	1
455	1	1	1	0	0	0	1	1	1
456	0	0	0	1	0	0	1	1	1
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466	0	1	0	0	1	0	1	1	1
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468	0	0	1	0	1	0	1	1	1
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470	0	1	1	0	1	0	1	1	1
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474	0	1	0	1	1	0	1	1	1
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497	1	0	0	0	1	1	1	1	1
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506	0	1	0	1	1	1	1	1	1
507	1	1	0	1	1	1	1	1	1
508	0	0	1	1	1	1	1	1	1
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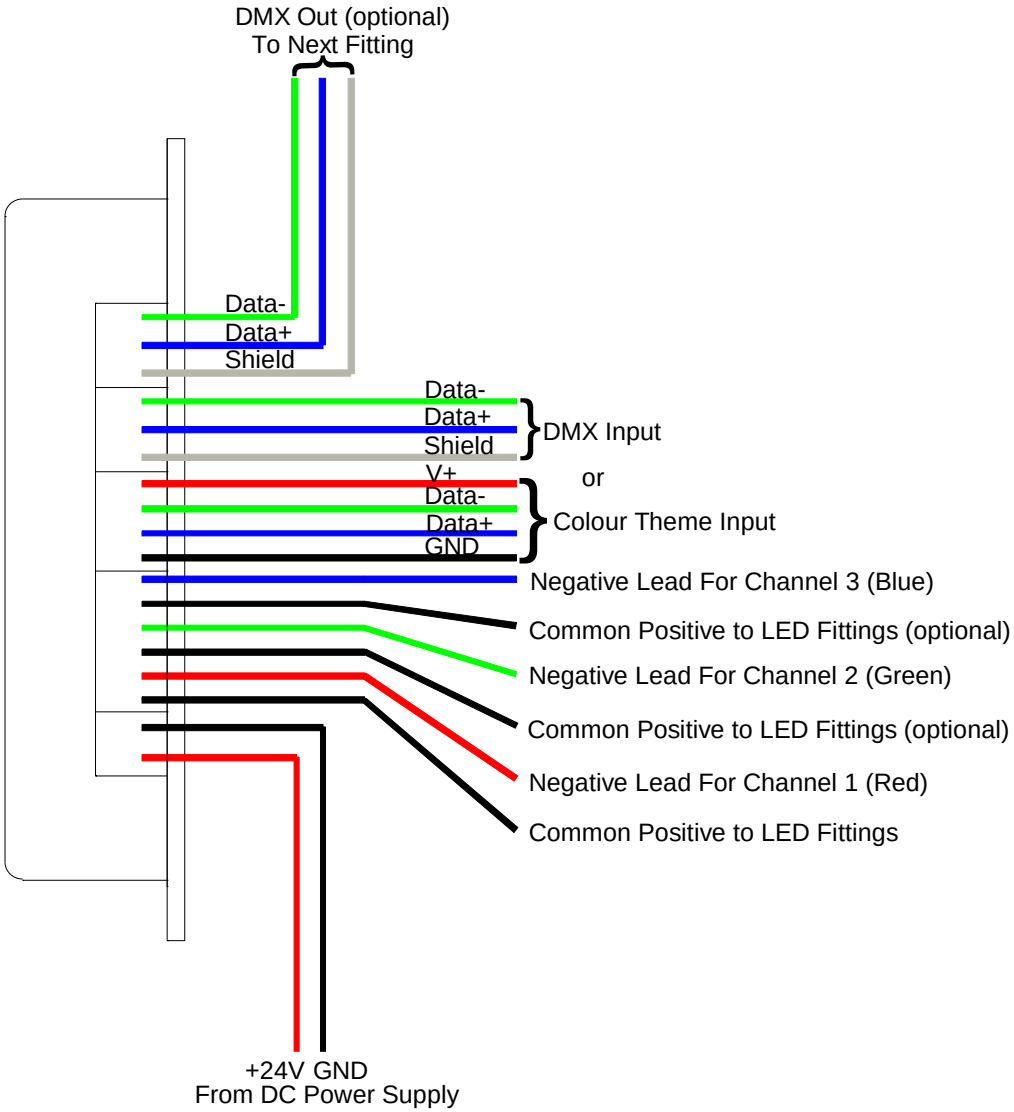
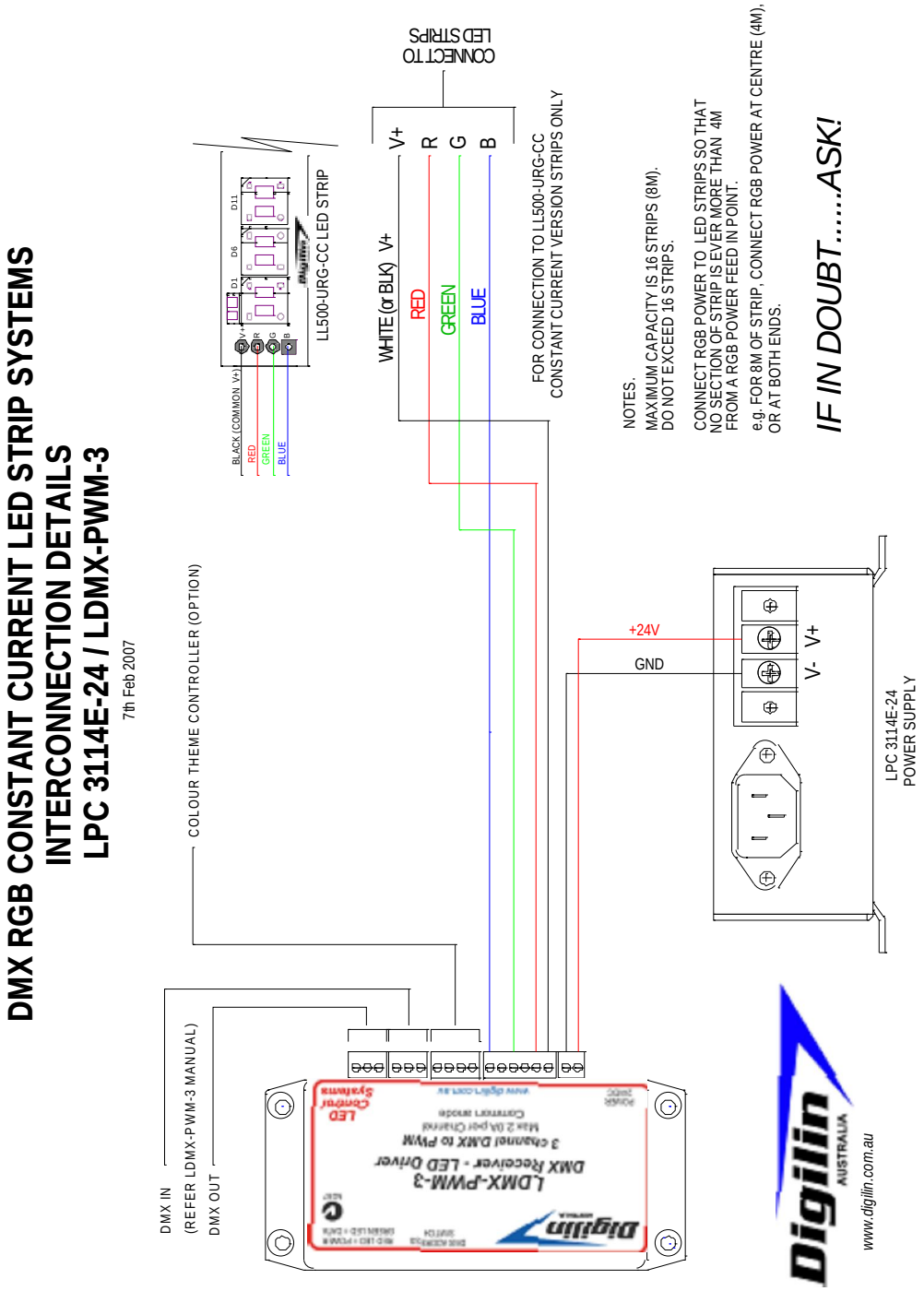
Appendix B. Interconnection Detail Drawing



Appendix C. Interconnection Detail Drawing – LPC3114E-24 / LDMX-PWM-3



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