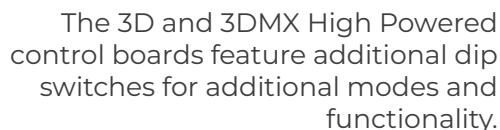


Affected part numbers:
64-PCR-3D / 64-PCR-3DW / 64-PCR-3DMX (excludes the 8Z)



This board can be set in 4 different modes. Each mode will affect the functionality of the dip switches on the board.

It's very important to start all trouble shooting with knowing which Mode the board is set to.

- Cloner (Switch mode) - Pg.1
- Module (RF remote or WiFi) - Pg.2
- PCR8 (2 wire ONLY) - Pg. 2
- DMX (Requires RJ12 module) - Pg.3

Ex. An RF module may be connected to M1 for a remote control.

“Long strip” mode will lower overall brightness to better suit longer strip runs. The length is strip dependant although 30+ feet is a good general guideline.

MOST scenarios - NEVER move the bridge jumper unless specifically using AstralPool Automation systems.

3D HIGH POWERED and 3DMX - CONTROLLERS (Cont.)

- Module Mode (Remote controller - APP via WiFi)

Cloner/Switch Mode Dip Switches

The cloner dip switches are between "Module Config" dip switches #1 #2 #3

Mode	#1	#2	#3	Note
Jandy	Off	ON	Off	Clone Jandy
Pentair	Off	Off	Off	Clone Pentair
Hayward	ON	Off	Off	Clone Hayward
PAL	ON	ON	Off	Clone PAL
Astral	Off	Off	ON	Clone Astral

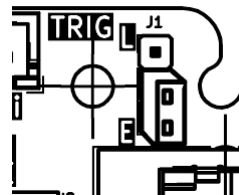
Pairing remote and/or smart phone to WiFi module

"Module Config" dip switch #4 will toggle pairing capabilities.

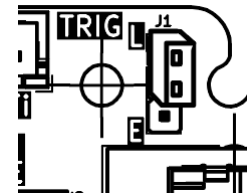
Mode	#4	Note
Pairing Disabled	Off	Disable pairing with the handheld remote or with a Smartphone + WiFi module.
Pairing Enabled	ON	Enable pairing with the handheld remote or with a Smartphone + WiFi module.

TRIG

If AstralPool Automation Systems are being used, the jumper bridge at "TRIG"/J1 must be moved to connect pin E - otherwise the jumper bridge should remain connecting pin L.



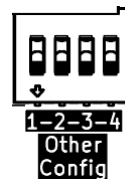
The RJ12 connection is live and an additional AstralPool system PCB/module can be connected.



MOST scenarios - NEVER move the bridge jumper unless specifically using AstralPool Automation systems.

Zone allocation (default is 2 zones)

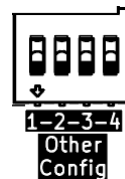
This control board is designed to control up to 2 zones but can be set to NO zones or 1 zone control using the "Other Config" dip switches #1 and #2.



Mode	#1	#2	Note
Two Zones	Off	Off	Normal 2 Zone PCR4 operation
No Zones	ON	Off	Zone control is ignored
Zone 1	Off	ON	Single Zone operation, operating on Zone 1
Zone 2	ON	ON	Single Zone operation, operating on Zone 2

White CCT alteration

The white color output is an approx. white and will be cool or warm based on the optional settings below. The CCT is an approx. value.



Mode	#3	#4	Note
6000K	Off	Off	Colour temperature correction disabled.
3500K	ON	Off	White is adjusted to approximately 3500K
3000K	Off	ON	White is adjusted to approximately 3000K
2600K	ON	ON	White is adjusted to approximately 2600K

- PCR8 Mode (2 wire only)

Connect cloning lights between White (+) and Red (-) terminals

A module is required to be fitted - this is a 2-wire Mode only.

Emulate PCR8 <- MUST BE ENABLED

"Module Config" dip switch #3 MUST be on.

Mode	#1	#2	#3	Note
PCR8	Off	Off	ON	Emulate PCR8

Pairing remote and/or smart phone to WiFi module

"Module Config" dip switch #4 will toggle pairing capabilities.



Mode	#4	Note
Pairing Disabled	Off	Disable pairing with the handheld remote or with a Smartphone + WiFi module.
Pairing Enabled	ON	Enable pairing with the handheld remote or with a Smartphone + WiFi module.

3D HIGH POWERED and 3DMX - CONTROLLERS (Cont.)

- DMX Mode (Requires DMX module connected to RJ12 terminal)

DMX connection

Connect the DMX output wires into the lighting controller using the "In" terminals.

If connecting to an additional lighting controller or device in the same DMX universe, use the "Thru" terminals to run the wires to the next device(s).

If NO additional devices are being added, the jumper bridge/shunt MUST be on the "DMX Term"/J3 pins.



A "closed" universe.
Prevents loss of
DMX signal.



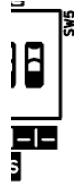
No jumper to allow
DMX signal to go
to the next connected
device.



3 Channel or 4 Channel DMX addressability

Dip switch I is designed to toggle between 3 channel and 4 channel addressability for our lights in a zone. This is toggled to help accommodate different addresses needed within a DMX universe and to suit DMX controllers which only have 4 channel light libraries.

3 channel allows for addresses 1 - 511 (Dipswitch I is off)
4 channel allows for addresses 1 - 505 (Dipswitch I is on)



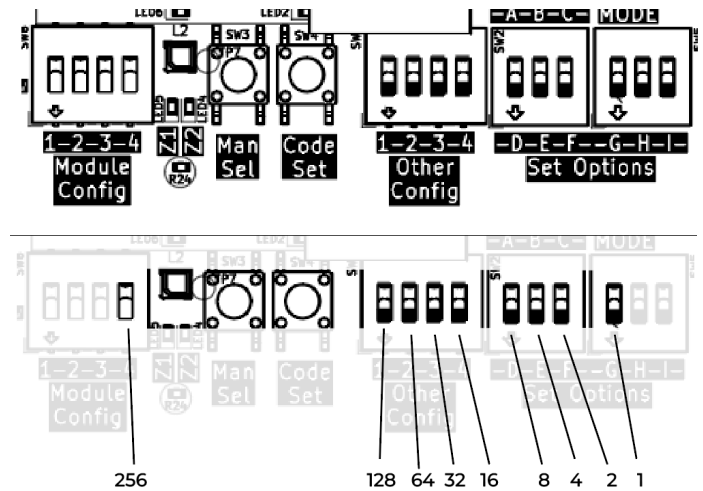
Output	Address in 3 Channels/light	Address in 4 Channels/light
Zone 1 Red	Start Address	Start Address
Zone 1 Green	Start Address + 1	Start Address + 1
Zone 1 Blue	Start Address + 2	Start Address + 2
Zone 2 Red	Start Address + 3	Start Address + 4
Zone 2 Green	Start Address + 4	Start Address + 5
Zone 2 Blue	Start Address + 5	Start Address + 6

Refer to the tables on the following pages for dipswitch configurations.

Assigning a DMX address

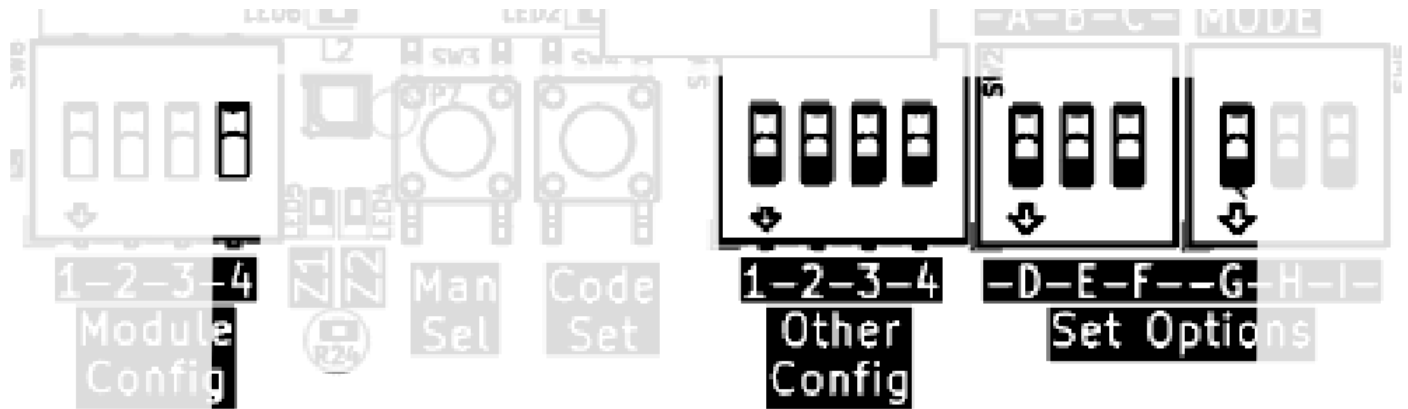
This board can be fine tuned to accommodate any DMX address needed - utilizing 9 dip switches as is familiar in most DMX devices.

Please refer to the image below:



DIP Switch Label	Add to Start Address
Set Options #G	1
Set Options #F	2
Set Options #E	4
Set Options #D	8
Other Config #4	16
Other Config #3	32
Other Config #2	64
Other Config #1	128
Module Config #4	256

3DMX - HIGH POWERED CONTROLLERS - 3 Channel addresses (Dip switch I is off)



Start Address	Module Config #4	Other Config #1	Other Config #2	Other Config #3	Other Config #4	Set Option #D	Set Option #E	Set Option #F	Set Option #G
1									
7							1	1	
13						1	1		
19					1			1	
25					1	1			
31					1	1	1	1	
37				1			1		
43				1		1		1	
49				1	1				
55				1	1		1	1	
61				1	1	1	1		
67			1					1	
73			1			1			
79			1			1	1	1	
85			1		1		1		
91			1		1	1		1	
97			1	1					
103			1	1			1	1	
109			1	1		1	1		
115			1	1	1			1	
121			1	1	1	1			
127			1	1	1	1	1	1	
133		1					1		
139		1				1		1	
145		1			1				
151		1			1		1	1	
157		1			1	1	1		
163		1		1				1	
169		1		1		1			
175		1		1		1	1	1	
181		1		1	1		1		
187		1		1	1	1		1	
193		1	1						
199		1	1				1	1	
205		1	1			1	1		
211		1	1		1			1	
217		1	1		1	1			
223		1	1	1	1	1	1	1	
229		1	1	1			1		
235		1	1	1		1		1	
241		1	1	1	1				
247		1	1	1	1		1	1	
253		1	1	1	1	1	1		

Start Address	Module Config #4	Other Config #1	Other Config #2	Other Config #3	Other Config #4	Set Option #D	Set Option #E	Set Option #F	Set Option #G
259	1							1	
265	1					1			
271	1					1	1	1	
277	1				1		1		
283	1				1	1		1	
289	1			1					
295	1			1			1	1	
301	1			1		1	1		
307	1			1	1			1	
313	1			1	1	1			
319	1			1	1	1	1	1	
325	1		1				1		
331	1		1			1		1	
337	1		1		1				
343	1		1		1		1	1	
349	1		1		1	1	1		
355	1		1	1				1	
361	1		1	1		1			
367	1		1	1		1	1	1	
373	1		1	1	1		1		
379	1		1	1	1	1		1	
385	1	1							
391	1	1					1	1	
397	1	1				1	1		
403	1	1			1			1	
409	1	1			1	1			
415	1	1		1	1	1	1	1	
421	1	1		1			1		
427	1	1		1		1		1	
433	1	1		1	1				
439	1	1		1	1		1	1	
445	1	1		1	1	1	1		
451	1	1	1					1	
457	1	1	1			1			
463	1	1	1			1	1	1	
469	1	1	1		1		1		
475	1	1	1		1	1		1	
481	1	1	1	1					
487	1	1	1	1			1	1	
493	1	1	1	1		1	1		
499	1	1	1	1	1			1	
505	1	1	1	1	1	1			
511	1	1	1	1	1	1	1	1	

3DMX - HIGH POWERED CONTROLLERS - 4 Channel addresses (Dipswitch I is ON)

Start Address	Module Config #4	Other Config #1	Other Config #2	Other Config #3	Other Config #4	Set Option #D	Set Option #E	Set Option #F	Set Option #G
1									
9						1			
17					1				
25					1	1			
33				1					
41				1		1			
49				1	1				
57				1	1	1			
65			1						
73			1			1			
81			1		1				
89			1		1	1			
97			1	1					
105			1	1		1			
113			1	1	1				
121			1	1	1	1			
129		1							
137		1				1			
145		1			1				
153		1			1	1			
161		1		1					
169		1		1		1			
177		1		1	1				
185		1		1	1	1			
193		1	1						
201		1	1			1			
209		1	1		1				
217		1	1		1	1			
225		1	1	1					
233		1	1	1		1			
241		1	1	1	1				
249		1	1	1	1	1			
257	1								
265	1					1			
273	1				1				
281	1				1	1			
289	1			1					
297	1			1		1			
305	1			1	1				
313	1			1	1	1			
321	1		1						
329	1		1			1			
337	1		1		1				
345	1		1		1	1			
353	1		1	1					
361	1		1	1		1			
369	1		1	1	1				
377	1		1	1	1	1			
385	1	1							
393	1	1				1			
401	1	1			1				
409	1	1			1	1			
417	1	1		1					
425	1	1		1		1			
433	1	1		1	1				
441	1	1		1	1	1			
449	1	1	1						
457	1	1	1			1			
465	1	1	1		1				
473	1	1	1		1	1			
481	1	1	1	1					
489	1	1	1	1		1			
497	1	1	1	1	1				
505	1	1	1	1	1	1			

