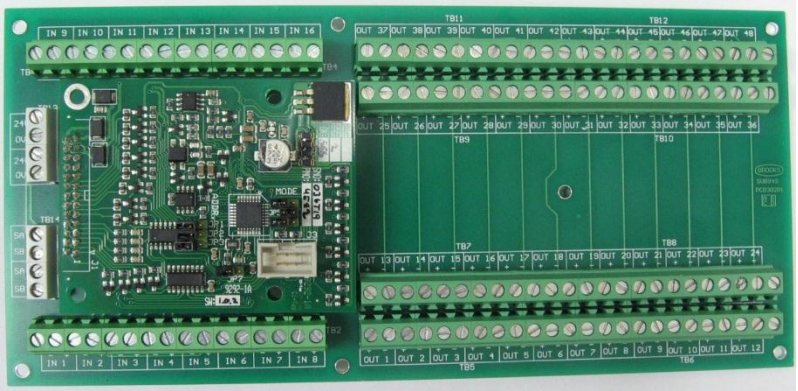

Addressable Generic I/O Mimic Module

16 Inputs / 48 Outputs

2212

Description

The addressable generic I/O mimic module 2212 is designed to provide up to 16 non-supervised clean contact inputs e.g. switch input and up to 48 non-supervised outputs e.g. LEDs. 2212 is a loop module that can be used remotely or inside the C.I.E. It requires 2 pairs from the control panel FT128, FT512 or FT1020G3 for 24V and COM loop. The 2212 module consists of 2 boards, a plug-in I/O matrix board 4582 and Generic I/O Mimic termination board SUB949A. The I/O matrix plugs in the IDC header in SUB949A and secured via M3 hex nuts and screws. The inputs and outputs are controlled via the I/O matrix board by the control panel as shown in Table 3, all inputs and outputs are programmable via Win software. The generic I/O module 2212 is designed to be fitted either using a standard DIN rail PCB mount (e.g. Excel Controls type E107 and M107) or using the mounting holes on SUB949A, refer to Figure **1**.

To configure 2212, the generic option in Win software is used.

Mode of Operation

The 48 LED outputs are 5V, approx. 15 mA (current limitation) per LED, and can be used for mimic indication. Any programmable output trigger conditions in Win128 / Win512 / WinG3 can be used to trigger an output LED. The 16 inputs can be used for 16 switches (push buttons, key switches, external time channel etc.). Any programmable input trigger conditions in Win128 / Win512 / WinG3 can be used.

Specifications

All current consumptions are valid for nominal voltage 24 VDC @ 25°C.

Function	Description
Power requirement	18-30V DC, Nominal 24V
COM loop quiescent current	Min. / Max.: 4 mA / 6 mA
DC supply current consumption	Min. / Max.: 10 mA (4582) / 100 mA (Depending on number of LEDs and activated input switches – application board.)
Output	48 x LED outputs of 5VDC, maximum 15mA per LED
Input	16 x Non-supervised inputs, N/O or N/C dry contact (0.1 – 3 mA per input) Note: For FT128, if time channels are used to control inputs, only 8 can be used.
Ambient temperature (°C)	Operating: -10 to +55 Storage: -55 to +105
Ambient humidity (%RH)	Max. 90, non-condensing
Ingress protection rating	Not applicable. (Depending on the application, board housing etc.)
Size L x W x H (mm)	230 x 107 x 27 (the module includes SUB947 and 4582 plugged in)
Weight (g)	Approx. 25

(Due to the continual development Brooks Australia reserves the rights to change the product specifications)

Installation

Figure 1 shows the location and purpose of mounting holes for installation.

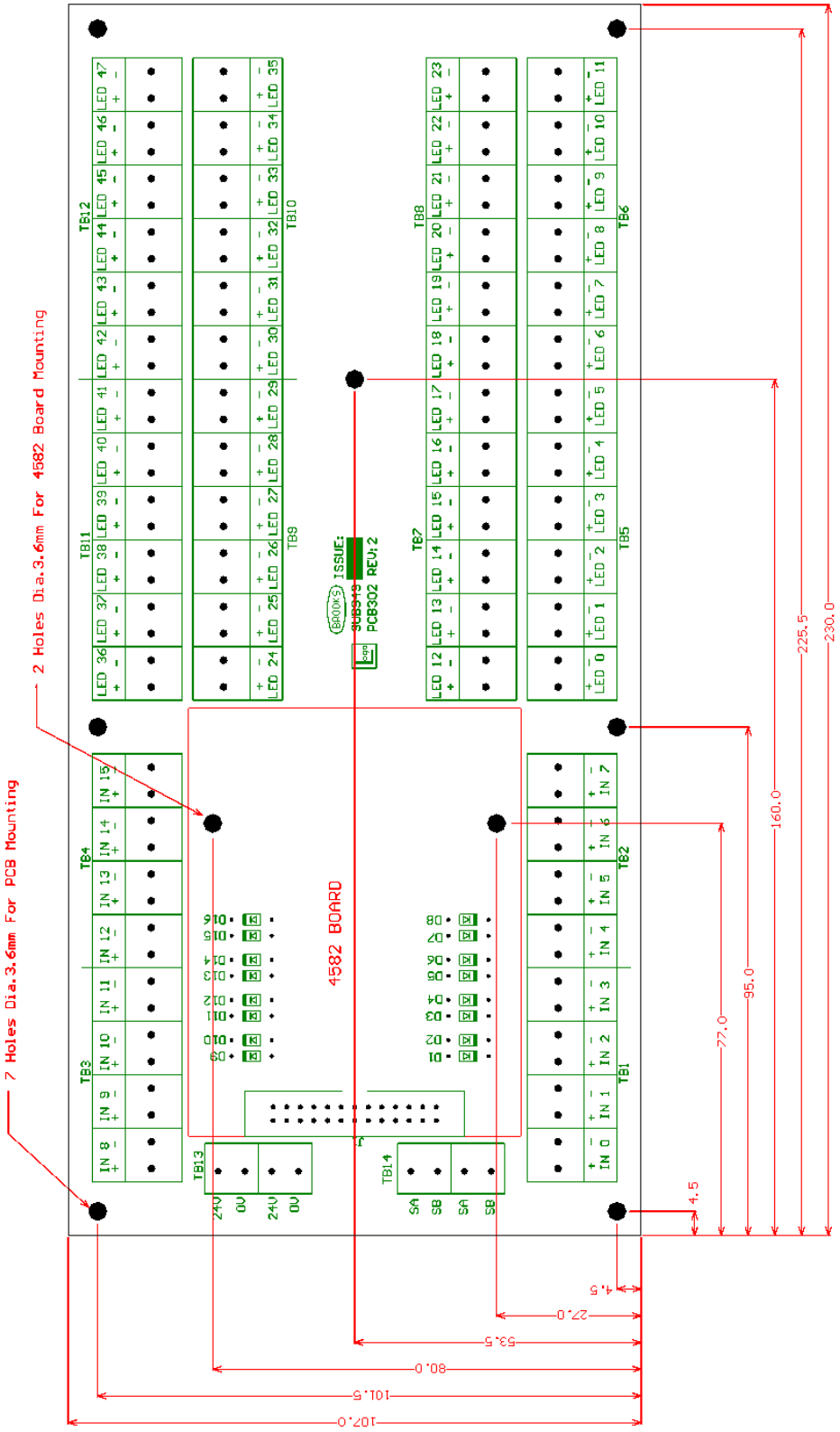

Figure 1 Mounting Holes on SUB949A

Jumper Link Settings on 4582

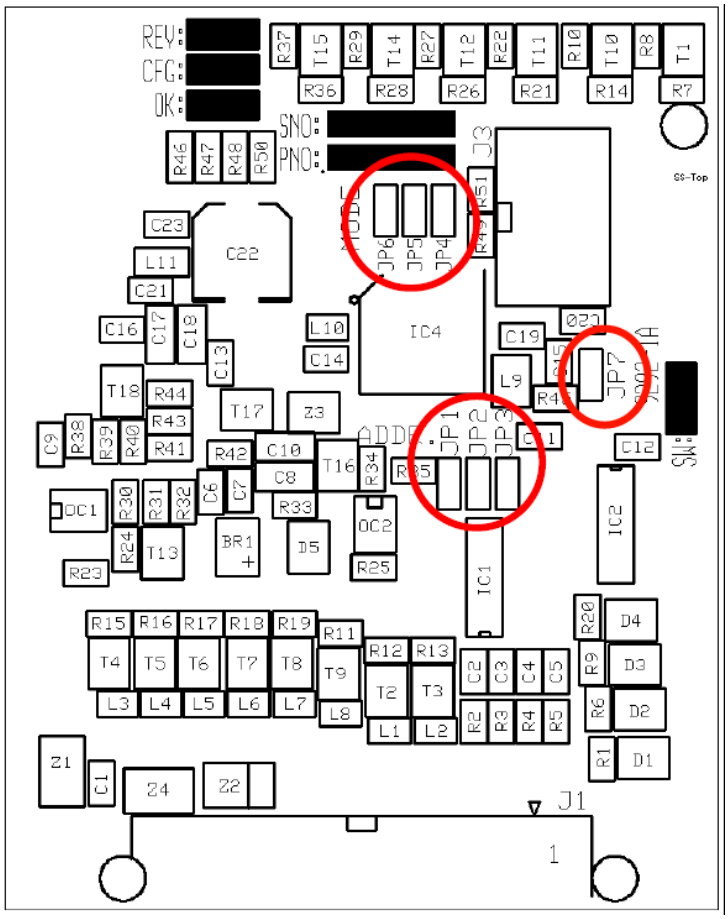

Figure 2 4582 I/O Matrix Board jumper locations

Table 1: 4582 I/O Matrix Board Address Setting (JP1-JP3)

4582 Address	JP1 – "1"	JP2 – "2"	JP3 – "3"
0			
1	X		
2		X	
3	X	X	
4			X
5	X		X

Jumpers JP1 to JP3 shown on Table 1 are used to set the address of the 4582 board. "X" indicates which jumpers should be shunted while empty spaces indicates those that are left not shunted.

NOTE! *Jumper "JP3" is only used in the Firetracker FT1020G3 – for the FT1020G3 the maximum number of 4582 boards per loop is 6, for the FT128 and FT512 the maximum number per loop is 4 boards.*

Table 2: 4582 I/O Matrix Board Type (JP4-JP6)

4582 Type	JP4	JP5	JP6
Fan control			
Zone Control	X		
Generic		X	

Jumpers JP4 to JP6 on **Table 2** are used to set the type of 4582 board application. For the 2212 the 4582 is used as a generic option, JP5 must be shunted while both JP4 and JP6 are not shunted.

Jumper JP7 is not shunted (used for factory setting).

Configuration of Inputs & Outputs

The 2212 module consists of 1 x SUB949A & 1 x 4582 and configured as follow:

- 16 dry contact inputs IN 0 – IN 15, 4582 inputs 0 – 15
- 48 LED outputs LED 0 – LED 47, 4582 outputs 0 - 47

Table 3 Input / Output configured in Win128 / Win512 / WinG3 and the terminal description on SUB949

Inputs		Outputs					
4582 I/P in Win SW	**SUB949 In**	**4582 O/P**	**LED**	**4582 O/P**	**LED**	**4582 O/P**	**LED**
0	In 0	0	LED 0	16	LED 16	32	LED 32
1	In 1	1	LED 1	17	LED 17	33	LED 33
2	In 2	2	LED 2	18	LED 18	34	LED 34
3	In 3	3	LED 3	19	LED 19	35	LED 35
4	In 4	4	LED 4	20	LED 20	36	LED 36
5	In 5	5	LED 5	21	LED 21	37	LED 37
6	In 6	6	LED 6	22	LED 22	38	LED 38
7	In 7	7	LED 7	23	LED 23	39	LED 39
8	In 8	8	LED 8	24	LED 24	40	LED 40
9	In 9	9	LED 9	25	LED 25	41	LED 41
10	In 10	10	LED 10	26	LED 26	42	LED 42
11	In 11	11	LED 11	27	LED 27	43	LED 43
12	In 12	12	LED 12	28	LED 28	44	LED 44
13	In 13	13	LED 13	29	LED 29	45	LED 45
14	In 14	14	LED 14	30	LED 30	46	LED 46
15	In 15	15	LED 15	31	LED 31	47	LED 47