

(no FOX) Demonstrator Test Configuration: LArDPS-eFEX #1

48 in, 48 out, 1-to-1 mapping via direct cable

22-Dec-2015	LArDPS Module			48-fiber trunk cable	gFEX Module		
Fiber Number at Connector or on cable	MTP Row a.k.a. MiniPOD number	Relative MiniPOD Channel Number	Source LArDPS Channel	LArDPS Channel on each fiber position of Type A cable (a row swap happens at each key-up to key-down MTP to MTP connection)	LArDPS Channel at Input	MTP Row a.k.a. MiniPOD number	Relative MiniPOD Channel Number
1	1	1	1-1	4-1	1-1	1	1
2	1	2	1-2	4-2	1-2	1	2
3	1	3	1-3	4-3	1-3	1	3
4	1	4	1-4	4-4	1-4	1	4
5	1	5	1-5	4-5	1-5	1	5
6	1	6	1-6	4-6	1-6	1	6
7	1	7	1-7	4-7	1-7	1	7
8	1	8	1-8	4-8	1-8	1	8
9	1	9	1-9	4-9	1-9	1	9
10	1	10	1-10	4-10	1-10	1	10
11	1	11	1-11	4-11	1-11	1	11
12	1	12	1-12	4-12	1-12	1	12
13	2	1	2-1	3-1	2-1	2	1
14	2	2	2-2	3-2	2-2	2	2
15	2	3	2-3	3-3	2-3	2	3
16	2	4	2-4	3-4	2-4	2	4
17	2	5	2-5	3-5	2-5	2	5
18	2	6	2-6	3-6	2-6	2	6
19	2	7	2-7	3-7	2-7	2	7
20	2	8	2-8	3-8	2-8	2	8
21	2	9	2-9	3-9	2-9	2	9
22	2	10	2-10	3-10	2-10	2	10
23	2	11	2-11	3-11	2-11	2	11
24	2	12	2-12	3-12	2-12	2	12
25	3	1	3-1	2-1	3-1	3	1
26	3	2	3-2	2-2	3-2	3	2
27	3	3	3-3	2-3	3-3	3	3
28	3	4	3-4	2-4	3-4	3	4
29	3	5	3-5	2-5	3-5	3	5
30	3	6	3-6	2-6	3-6	3	6
31	3	7	3-7	2-7	3-7	3	7
32	3	8	3-8	2-8	3-8	3	8
33	3	9	3-9	2-9	3-9	3	9
34	3	10	3-10	2-10	3-10	3	10
35	3	11	3-11	2-11	3-11	3	11
36	3	12	3-12	2-12	3-12	3	12
37	4	1	4-1	1-1	4-1	4	1
38	4	2	4-2	1-2	4-2	4	2
39	4	3	4-3	1-3	4-3	4	3
40	4	4	4-4	1-4	4-4	4	4
41	4	5	4-5	1-5	4-5	4	5
42	4	6	4-6	1-6	4-6	4	6
43	4	7	4-7	1-7	4-7	4	7
44	4	8	4-8	1-8	4-8	4	8
45	4	9	4-9	1-9	4-9	4	9
46	4	10	4-10	1-10	4-10	4	10
47	4	11	4-11	1-11	4-11	4	11
48	4	12	4-12	1-12	4-12	4	12

FOX Demonstrator Test Configuration: LArDPS-eFEX #2

48 in, 48 out, 1-to-1 mapping, no splitting

22-Dec-2015	LArDPS Module			LArFOX Module		eFOX Module		gFEX Module		
Fiber Number at MTP Connector	MTP Row a.k.a. MiniPOD number	Relative MiniPOD Channel Number	Source LArDPS Channel	LArDPS Channel at Input	LArDPS Channel at Output	LArDPS Channel at Input	LArDPS Channel at Output	LArDPS Channel at Input	MTP Row a.k.a. MiniPOD number	Relative MiniPOD Channel Number
1	1	1	1-1	1-1	1-1	1-1	1-1	1-1	1	1
2	1	2	1-2	1-2	1-2	1-2	1-2	1-2	1	2
3	1	3	1-3	1-3	1-3	1-3	1-3	1-3	1	3
4	1	4	1-4	1-4	1-4	1-4	1-4	1-4	1	4
5	1	5	1-5	1-5	1-5	1-5	1-5	1-5	1	5
6	1	6	1-6	1-6	1-6	1-6	1-6	1-6	1	6
7	1	7	1-7	1-7	1-7	1-7	1-7	1-7	1	7
8	1	8	1-8	1-8	1-8	1-8	1-8	1-8	1	8
9	1	9	1-9	1-9	1-9	1-9	1-9	1-9	1	9
10	1	10	1-10	1-10	1-10	1-10	1-10	1-10	1	10
11	1	11	1-11	1-11	1-11	1-11	1-11	1-11	1	11
12	1	12	1-12	1-12	1-12	1-12	1-12	1-12	1	12
13	2	1	2-1	2-1	2-1	2-1	2-1	2-1	2	1
14	2	2	2-2	2-2	2-2	2-2	2-2	2-2	2	2
15	2	3	2-3	2-3	2-3	2-3	2-3	2-3	2	3
16	2	4	2-4	2-4	2-4	2-4	2-4	2-4	2	4
17	2	5	2-5	2-5	2-5	2-5	2-5	2-5	2	5
18	2	6	2-6	2-6	2-6	2-6	2-6	2-6	2	6
19	2	7	2-7	2-7	2-7	2-7	2-7	2-7	2	7
20	2	8	2-8	2-8	2-8	2-8	2-8	2-8	2	8
21	2	9	2-9	2-9	2-9	2-9	2-9	2-9	2	9
22	2	10	2-10	2-10	2-10	2-10	2-10	2-10	2	10
23	2	11	2-11	2-11	2-11	2-11	2-11	2-11	2	11
24	2	12	2-12	2-12	2-12	2-12	2-12	2-12	2	12
25	3	1	3-1	3-1	3-1	3-1	3-1	3-1	3	1
26	3	2	3-2	3-2	3-2	3-2	3-2	3-2	3	2
27	3	3	3-3	3-3	3-3	3-3	3-3	3-3	3	3
28	3	4	3-4	3-4	3-4	3-4	3-4	3-4	3	4
29	3	5	3-5	3-5	3-5	3-5	3-5	3-5	3	5
30	3	6	3-6	3-6	3-6	3-6	3-6	3-6	3	6
31	3	7	3-7	3-7	3-7	3-7	3-7	3-7	3	7
32	3	8	3-8	3-8	3-8	3-8	3-8	3-8	3	8
33	3	9	3-9	3-9	3-9	3-9	3-9	3-9	3	9
34	3	10	3-10	3-10	3-10	3-10	3-10	3-10	3	10
35	3	11	3-11	3-11	3-11	3-11	3-11	3-11	3	11
36	3	12	3-12	3-12	3-12	3-12	3-12	3-12	3	12
37	4	1	4-1	4-1	4-1	4-1	4-1	4-1	4	1
38	4	2	4-2	4-2	4-2	4-2	4-2	4-2	4	2
39	4	3	4-3	4-3	4-3	4-3	4-3	4-3	4	3
40	4	4	4-4	4-4	4-4	4-4	4-4	4-4	4	4
41	4	5	4-5	4-5	4-5	4-5	4-5	4-5	4	5
42	4	6	4-6	4-6	4-6	4-6	4-6	4-6	4	6
43	4	7	4-7	4-7	4-7	4-7	4-7	4-7	4	7
44	4	8	4-8	4-8	4-8	4-8	4-8	4-8	4	8
45	4	9	4-9	4-9	4-9	4-9	4-9	4-9	4	9
46	4	10	4-10	4-10	4-10	4-10	4-10	4-10	4	10
47	4	11	4-11	4-11	4-11	4-11	4-11	4-11	4	11
48	4	12	4-12	4-12	4-12	4-12	4-12	4-12	4	12

FOX Demonstrator Test Configuration: LArDPS-eFEX #3

48 in, 48 out, mostly 1-to-1 mapping, 12 outputs split

22-Dec-2015	LArDPS Module			LArFOX Module		eFOX Module		gFEX Module		
Fiber Number at MTP Connector	MTP Row a.k.a. MiniPOD number	Relative MiniPOD Channel Number	Source LArDPS Channel	LArDPS Channel at Input	LArDPS Channel at Output	LArDPS Channel at Input	LArDPS Channel at Output	LArDPS Channel at Input	MTP Row a.k.a. MiniPOD number	Relative MiniPOD Channel Number
1	1	1	1-1	1-1	1-1	1-1	1-1	1-1	1	1
2	1	2	1-2	1-2	1-2	1-2	1-2	1-2	1	2
3	1	3	1-3	1-3	1-3	1-3	1-3	1-3	1	3
4	1	4	1-4	1-4	1-4	1-4	1-4	1-4	1	4
5	1	5	1-5	1-5	1-5	1-5	1-5	1-5	1	5
6	1	6	1-6	1-6	1-6	1-6	1-6	1-6	1	6
7	1	7	1-7	1-7	1-7	1-7	1-7	1-7	1	7
8	1	8	1-8	1-8	1-8	1-8	1-8	1-8	1	8
9	1	9	1-9	1-9	1-9	1-9	1-9	1-9	1	9
10	1	10	1-10	1-10	1-10	1-10	1-10	1-10	1	10
11	1	11	1-11	1-11	1-11	1-11	1-11	1-11	1	11
12	1	12	1-12	1-12	1-12	1-12	1-12	1-12	1	12
13	2	1	2-1	2-1	2-1	2-1	2-7 / 2	2-7 / 2	2	1
14	2	2	2-2	2-2	2-2	2-2	2-7 / 2	2-7 / 2	2	2
15	2	3	2-3	2-3	2-3	2-3	2-8 / 2	2-8 / 2	2	3
16	2	4	2-4	2-4	2-4	2-4	2-8 / 2	2-8 / 2	2	4
17	2	5	2-5	2-5	2-5	2-5	2-9 / 2	2-9 / 2	2	5
18	2	6	2-6	2-6	2-6	2-6	2-9 / 2	2-9 / 2	2	6
19	2	7	2-7	2-7	2-7	2-7	2-10 / 2	2-10 / 2	2	7
20	2	8	2-8	2-8	2-8	2-8	2-10 / 2	2-10 / 2	2	8
21	2	9	2-9	2-9	2-9	2-9	2-11 / 2	2-11 / 2	2	9
22	2	10	2-10	2-10	2-10	2-10	2-11 / 2	2-11 / 2	2	10
23	2	11	2-11	2-11	2-11	2-11	2-12 / 2	2-12 / 2	2	11
24	2	12	2-12	2-12	2-12	2-12	2-12 / 2	2-12 / 2	2	12
25	3	1	3-1	3-1	3-1	3-1	3-1	3-1	3	1
26	3	2	3-2	3-2	3-2	3-2	3-2	3-2	3	2
27	3	3	3-3	3-3	3-3	3-3	3-3	3-3	3	3
28	3	4	3-4	3-4	3-4	3-4	3-4	3-4	3	4
29	3	5	3-5	3-5	3-5	3-5	3-5	3-5	3	5
30	3	6	3-6	3-6	3-6	3-6	3-6	3-6	3	6
31	3	7	3-7	3-7	3-7	3-7	3-7	3-7	3	7
32	3	8	3-8	3-8	3-8	3-8	3-8	3-8	3	8
33	3	9	3-9	3-9	3-9	3-9	3-9	3-9	3	9
34	3	10	3-10	3-10	3-10	3-10	3-10	3-10	3	10
35	3	11	3-11	3-11	3-11	3-11	3-11	3-11	3	11
36	3	12	3-12	3-12	3-12	3-12	3-12	3-12	3	12
37	4	1	4-1	4-1	4-1	4-1	4-1	4-1	4	1
38	4	2	4-2	4-2	4-2	4-2	4-2	4-2	4	2
39	4	3	4-3	4-3	4-3	4-3	4-3	4-3	4	3
40	4	4	4-4	4-4	4-4	4-4	4-4	4-4	4	4
41	4	5	4-5	4-5	4-5	4-5	4-5	4-5	4	5
42	4	6	4-6	4-6	4-6	4-6	4-6	4-6	4	6
43	4	7	4-7	4-7	4-7	4-7	4-7	4-7	4	7
44	4	8	4-8	4-8	4-8	4-8	4-8	4-8	4	8
45	4	9	4-9	4-9	4-9	4-9	4-9	4-9	4	9
46	4	10	4-10	4-10	4-10	4-10	4-10	4-10	4	10
47	4	11	4-11	4-11	4-11	4-11	4-11	4-11	4	11
48	4	12	4-12	4-12	4-12	4-12	4-12	4-12	4	12

FOX Demonstrator Test Configuration: LArDPS-gFEX #1

48 in, 72 out, 1-to-1 mapping, no splitting

22-Dec-2015	LArDPS Module			LArFOX Module		gFOX Module		gFEX Module		
Fiber Number at MTP Connector	MTP Row a.k.a. MiniPOD number	Relative MiniPOD Channel Number	Source LArDPS Channel	LArDPS Channel at Input	LArDPS Channel at Output	LArDPS Channel at Input	LArDPS Channel at Output	LArDPS Channel at Input	MTP Row a.k.a. MiniPOD number	Relative MiniPOD Channel Number
1	1	1	1-1	1-1	1-1	1-1	1-1	1-1	1	1
2	1	2	1-2	1-2	1-2	1-2	1-2	1-2	1	2
3	1	3	1-3	1-3	1-3	1-3	1-3	1-3	1	3
4	1	4	1-4	1-4	1-4	1-4	1-4	1-4	1	4
5	1	5	1-5	1-5	1-5	1-5	1-5	1-5	1	5
6	1	6	1-6	1-6	1-6	1-6	1-6	1-6	1	6
7	1	7	1-7	1-7	1-7	1-7	1-7	1-7	1	7
8	1	8	1-8	1-8	1-8	1-8	1-8	1-8	1	8
9	1	9	1-9	1-9	1-9	1-9	1-9	1-9	1	9
10	1	10	1-10	1-10	1-10	1-10	1-10	1-10	1	10
11	1	11	1-11	1-11	1-11	1-11	1-11	1-11	1	11
12	1	12	1-12	1-12	1-12	1-12	1-12	1-12	1	12
13	2	1	2-1	2-1	2-1	2-1	2-1	2-1	2	1
14	2	2	2-2	2-2	2-2	2-2	2-2	2-2	2	2
15	2	3	2-3	2-3	2-3	2-3	2-3	2-3	2	3
16	2	4	2-4	2-4	2-4	2-4	2-4	2-4	2	4
17	2	5	2-5	2-5	2-5	2-5	2-5	2-5	2	5
18	2	6	2-6	2-6	2-6	2-6	2-6	2-6	2	6
19	2	7	2-7	2-7	2-7	2-7	2-7	2-7	2	7
20	2	8	2-8	2-8	2-8	2-8	2-8	2-8	2	8
21	2	9	2-9	2-9	2-9	2-9	2-9	2-9	2	9
22	2	10	2-10	2-10	2-10	2-10	2-10	2-10	2	10
23	2	11	2-11	2-11	2-11	2-11	2-11	2-11	2	11
24	2	12	2-12	2-12	2-12	2-12	2-12	2-12	2	12
25	3	1	3-1	3-1	3-1	3-1	3-1	3-1	3	1
26	3	2	3-2	3-2	3-2	3-2	3-2	3-2	3	2
27	3	3	3-3	3-3	3-3	3-3	3-3	3-3	3	3
28	3	4	3-4	3-4	3-4	3-4	3-4	3-4	3	4
29	3	5	3-5	3-5	3-5	3-5	3-5	3-5	3	5
30	3	6	3-6	3-6	3-6	3-6	3-6	3-6	3	6
31	3	7	3-7	3-7	3-7	3-7	3-7	3-7	3	7
32	3	8	3-8	3-8	3-8	3-8	3-8	3-8	3	8
33	3	9	3-9	3-9	3-9	3-9	3-9	3-9	3	9
34	3	10	3-10	3-10	3-10	3-10	3-10	3-10	3	10
35	3	11	3-11	3-11	3-11	3-11	3-11	3-11	3	11
36	3	12	3-12	3-12	3-12	3-12	3-12	3-12	3	12
37	4	1	4-1	4-1	4-1	4-1	4-1	4-1	4	1
38	4	2	4-2	4-2	4-2	4-2	4-2	4-2	4	2
39	4	3	4-3	4-3	4-3	4-3	4-3	4-3	4	3
40	4	4	4-4	4-4	4-4	4-4	4-4	4-4	4	4
41	4	5	4-5	4-5	4-5	4-5	4-5	4-5	4	5
42	4	6	4-6	4-6	4-6	4-6	4-6	4-6	4	6
43	4	7	4-7	4-7	4-7	4-7	4-7	4-7	4	7
44	4	8	4-8	4-8	4-8	4-8	4-8	4-8	4	8
45	4	9	4-9	4-9	4-9	4-9	4-9	4-9	4	9
46	4	10	4-10	4-10	4-10	4-10	4-10	4-10	4	10
47	4	11	4-11	4-11	4-11	4-11	4-11	4-11	4	11
48	4	12	4-12	4-12	4-12	4-12	4-12	4-12	4	12

49		dark	dark	5	1
50		dark	dark	5	2
51		dark	dark	5	3
52		dark	dark	5	4
53		dark	dark	5	5
54		dark	dark	5	6
55		dark	dark	5	7
56		dark	dark	5	8
57		dark	dark	5	9
58		dark	dark	5	10
59		dark	dark	5	11
60		dark	dark	5	12
61		dark	dark	6	1
62		dark	dark	6	2
63		dark	dark	6	3
64		dark	dark	6	4
65		dark	dark	6	5
66		dark	dark	6	6
67		dark	dark	6	7
68		dark	dark	6	8
69		dark	dark	6	9
70		dark	dark	6	10
71		dark	dark	6	11
72		dark	dark	6	12

FOX Demonstrator Test Configuration: LArDPS-gFEX #2

48 in, 72 out, mostly 1-to-1 mapping, 12 outputs split

22-Dec-2015	LArDPS Module			LArFOX Module		gFOX Module		gFEX Module		
Fiber Number at MTP Connector	MTP Row a.k.a. MiniPOD number	Relative MiniPOD Channel Number	Source LArDPS Channel	LArDPS Channel at Input	LArDPS Channel at Output	LArDPS Channel at Input	LArDPS Channel at Output	LArDPS Channel at Input	MTP Row a.k.a. MiniPOD number	Relative MiniPOD Channel Number
1	1	1	1-1	1-1	1-1	1-1	1-1	1-1	1	1
2	1	2	1-2	1-2	1-2	1-2	1-2	1-2	1	2
3	1	3	1-3	1-3	1-3	1-3	1-3	1-3	1	3
4	1	4	1-4	1-4	1-4	1-4	1-4	1-4	1	4
5	1	5	1-5	1-5	1-5	1-5	1-5	1-5	1	5
6	1	6	1-6	1-6	1-6	1-6	1-6	1-6	1	6
7	1	7	1-7	1-7	1-7	1-7	1-7	1-7	1	7
8	1	8	1-8	1-8	1-8	1-8	1-8	1-8	1	8
9	1	9	1-9	1-9	1-9	1-9	1-9	1-9	1	9
10	1	10	1-10	1-10	1-10	1-10	1-10	1-10	1	10
11	1	11	1-11	1-11	1-11	1-11	1-11	1-11	1	11
12	1	12	1-12	1-12	1-12	1-12	1-12	1-12	1	12
13	2	1	2-1	2-1	2-1	2-1	2-7 / 2	2-7 / 2	2	1
14	2	2	2-2	2-2	2-2	2-2	2-7 / 2	2-7 / 2	2	2
15	2	3	2-3	2-3	2-3	2-3	2-8 / 2	2-8 / 2	2	3
16	2	4	2-4	2-4	2-4	2-4	2-8 / 2	2-8 / 2	2	4
17	2	5	2-5	2-5	2-5	2-5	2-9 / 2	2-9 / 2	2	5
18	2	6	2-6	2-6	2-6	2-6	2-9 / 2	2-9 / 2	2	6
19	2	7	2-7	2-7	2-7	2-7	2-10 / 2	2-10 / 2	2	7
20	2	8	2-8	2-8	2-8	2-8	2-10 / 2	2-10 / 2	2	8
21	2	9	2-9	2-9	2-9	2-9	2-11 / 2	2-11 / 2	2	9
22	2	10	2-10	2-10	2-10	2-10	2-11 / 2	2-11 / 2	2	10
23	2	11	2-11	2-11	2-11	2-11	2-12 / 2	2-12 / 2	2	11
24	2	12	2-12	2-12	2-12	2-12	2-12 / 2	2-12 / 2	2	12
25	3	1	3-1	3-1	3-1	3-1	3-1	3-1	3	1
26	3	2	3-2	3-2	3-2	3-2	3-2	3-2	3	2
27	3	3	3-3	3-3	3-3	3-3	3-3	3-3	3	3
28	3	4	3-4	3-4	3-4	3-4	3-4	3-4	3	4
29	3	5	3-5	3-5	3-5	3-5	3-5	3-5	3	5
30	3	6	3-6	3-6	3-6	3-6	3-6	3-6	3	6
31	3	7	3-7	3-7	3-7	3-7	3-7	3-7	3	7
32	3	8	3-8	3-8	3-8	3-8	3-8	3-8	3	8
33	3	9	3-9	3-9	3-9	3-9	3-9	3-9	3	9
34	3	10	3-10	3-10	3-10	3-10	3-10	3-10	3	10
35	3	11	3-11	3-11	3-11	3-11	3-11	3-11	3	11
36	3	12	3-12	3-12	3-12	3-12	3-12	3-12	3	12
37	4	1	4-1	4-1	4-1	4-1	4-1	4-1	4	1
38	4	2	4-2	4-2	4-2	4-2	4-2	4-2	4	2
39	4	3	4-3	4-3	4-3	4-3	4-3	4-3	4	3
40	4	4	4-4	4-4	4-4	4-4	4-4	4-4	4	4
41	4	5	4-5	4-5	4-5	4-5	4-5	4-5	4	5
42	4	6	4-6	4-6	4-6	4-6	4-6	4-6	4	6
43	4	7	4-7	4-7	4-7	4-7	4-7	4-7	4	7
44	4	8	4-8	4-8	4-8	4-8	4-8	4-8	4	8
45	4	9	4-9	4-9	4-9	4-9	4-9	4-9	4	9
46	4	10	4-10	4-10	4-10	4-10	4-10	4-10	4	10
47	4	11	4-11	4-11	4-11	4-11	4-11	4-11	4	11
48	4	12	4-12	4-12	4-12	4-12	4-12	4-12	4	12

49		2-1	2-1	5	1
50		2-2	2-2	5	2
51		2-3	2-3	5	3
52		2-4	2-4	5	4
53		2-5	2-5	5	5
54		2-6	2-6	5	6
55		dark	dark	5	7
56		dark	dark	5	8
57		dark	dark	5	9
58		dark	dark	5	10
59		dark	dark	5	11
60		dark	dark	5	12
61		dark	dark	6	1
62		dark	dark	6	2
63		dark	dark	6	3
64		dark	dark	6	4
65		dark	dark	6	5
66		dark	dark	6	6
67		dark	dark	6	7
68		dark	dark	6	8
69		dark	dark	6	9
70		dark	dark	6	10
71		dark	dark	6	11
72		dark	dark	6	12