

## MSR1 (Mass Storage Room)

### Rack Mount Components w/Locations

Loc	Description	Vendor	Model	Designator
01	Fiber Optic Patch Panel (SM 48port)	Ortronics		FPP-1
03	Fiber Optic Patch Panel (SM 48port)	Ortronics		FPP-2
06	Fiber Optic Patch Panel (MM 24port)	Ortronics		FPP-3
08	Fiber Optic Patch Panel (MM 24port)	Ortronics		FPP-4
10	NTP GPS Time Server	TrueTime	NTS-100	NTP-1
17	PEM Radio Receivers (shelf mount)			SHELF-1
19	VME Crate (EPICS, FO converters)	Electronic Solutions	EMC	VME-1
27	GPS IRIG-B Fanout	Radio Code	FDA 1050	IRIG-1
32	Video FO converters (shelf mount)			SHELF-2
34	Video Switch	Knox	Chameleon HB	VIDEO-1

#### Notes:

- 1) This drawing is **PRELIMINARY**. It is only to be used for purposes of rack layout and initial installation of the CDS networking and DAQ.
- 2) Video shelf not completed.
- 3) PEM equipment side-mounted; Dust Monitor PS and Weather Station Readout.

### VME-1 Modules / Slot Assignments

Slot	Description	Vendor	Model	Designator
3	Motorola mv162 CPU	Motorola	mv162-333	CPU-1
12	RFM SM/MM Converter	VMIC	5592-A	RFMC-1
13	RFM SM/MM Converter	VMIC	5592-A	RFMC-2
14	RFM SM/MM Converter	VMIC	5592-A	RFMC-3

### SHELF-1 Shelf Mounted Components

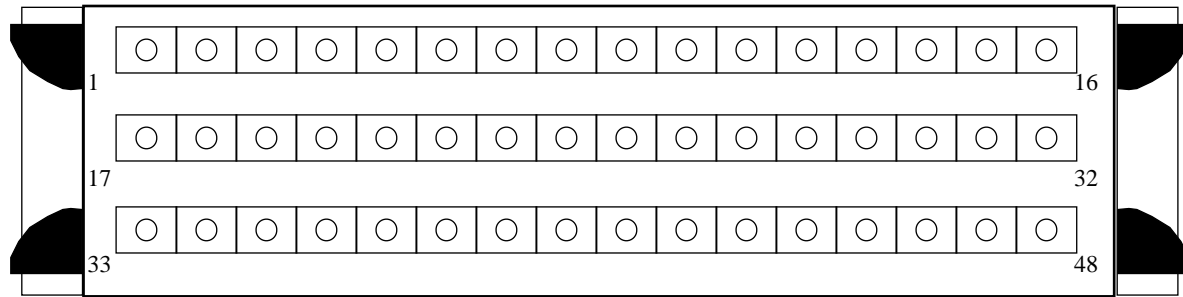
Item	Description	Vendor	Model	Designator
1	Wideband RF Receiver	AOR	AT5000	RF-1
2	Wideband RF Receiver	AOR	AT5000	RF-2
3	Wideband RF Receiver	AOR	AT5000	RF-3
4	Wideband RF Receiver	AOR	AT5000	RF-4

### SHELF-2 Shelf Mounted Components

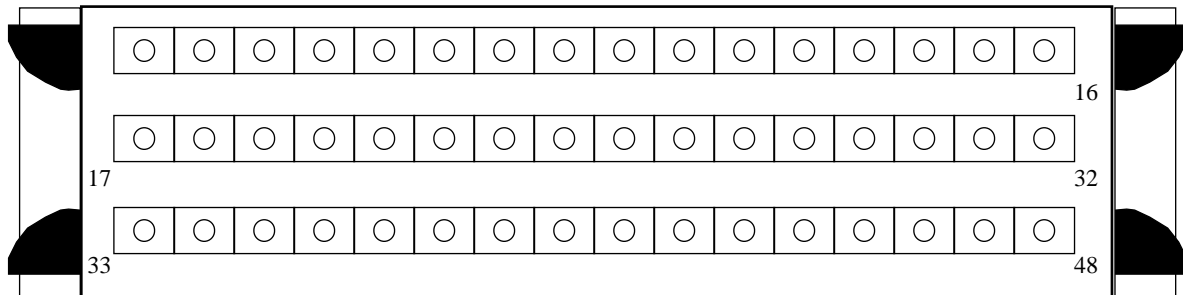
Item	Description	Vendor	Model	Designator
1	Fibre Optics SM Converter			
2	Fibre Optics SM Converter			
3	Fibre Optics MM Converter			
4	Fibre Optics MM Converter			
5	Video Quad Unit			
6	Video Quad Unit			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RMS BREAK CORNERS IN OUT. REMOVE ALL BURRS		File: /opt/CDS/c/docs/daq/drawings/dev/Rack_MSRI.fm5		CURRENT REVISION APPROVAL		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
DO NOT SCALE THIS DRAWING		Last Modified Date: February 8, 2000		DRAWN D.Barker	GROUP LHO	SIGNATURE	DATE 05 Oct 99
USED ON:		REV	DESCRIPTION	SHEETS EFFECTED	DATE	Hanford Rack Layout - MSR-1 Chassis Layouts (Mass Storage Room)	
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	SCALE	SIZE B	DWG. NO. D990632-00-C	REV. 1
REFERENCE DRAWINGS		NEXT ASS'Y:		ISSUE DESCRIPTION		CAD FILE	SCALE
6		5		4		3	
						SHEET 1 of 2	
						STD	
						VER. 01	

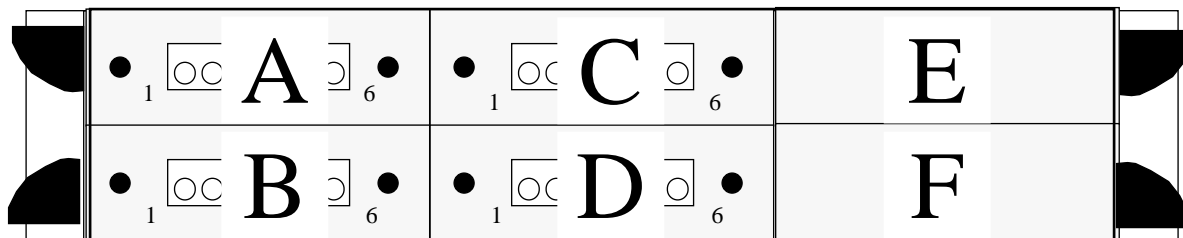
FPP-1 Single Mode 48 port Fibre Optics Patch Panel. EY/MY



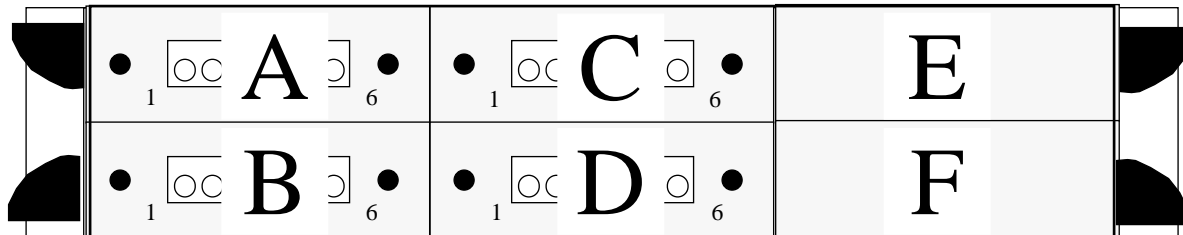
FPP-2 Single Mode 48 port Fibre Optics Patch Panel. EX/MY



FPP-3 LVEA 2k MM/SM Patch Panel



FPP-4 LVEA 4k MM/SM Patch Panel



FPP-1 single mode 48 port panel

Port Range	Connector Type	Destination	Long Haul Cable Designator
1 - 24	FC	EY (Left End)	
25 - 48	FC	MY (Left Mid)	

FPP-2 single mode 48 port panel

Port Range	Connector Type	Destination	Long Haul Cable Designator
1 - 24	FC	EX (Right End)	
25 - 48	FC	MX (Right Mid)	

FPP-3 multi mode and single mode panel

Sub Panel	Description	Destination	Long Haul Cable Designator
A	6 port ST MultiMode	LVEA 2k 2X3	
B	6 port ST MultiMode	LVEA 2k 2X3	
C	6 port ST MultiMode	LVEA 2k 2X3	
D	6 port ST MultiMode	LVEA 2k 2X3	
E	6 port FC SingleMode	LVEA 2k 2X3	
F	Not Used	NA	NA

FPP-3 multi mode and single modet panel

Sub Panel	Description	Destination	Long Haul Cable Designator
A	6 port ST MultiMode	LVEA 4k 1X22	
B	6 port ST MultiMode	LVEA 4k 1X22	
C	6 port ST MultiMode	LVEA 4k 1X22	
D	6 port ST MultiMode	LVEA 4k 1X22	
E	6 port FC SingleMode	LVEA 4k 1X22	
F	Not Used	NA	NA

				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR RACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± FINISHED SURFACE RMS BREAK CORNERS IN REMOVE ALL BURRS	File: /opt/CDS/c/docs/daq/drawings/dev/Rack_MSRI.fm5 Last Modified Date: February 8, 2000		CURRENT REVISION APPROVAL		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY			
				DO NOT SCALE THIS DRAWING	REV	DESCRIPTION	SHEETS EFFECTED	DATE	DRAWN D.Barker CHECKED	GROUP LHO	SIGNATURE	DATE 05 Oct 99
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION	USED ON:	ISSUE DESCRIPTION				Hanford Rack Layout - MSR-1 Fibre Optics Patch Panel Detail			
REFERENCE DRAWINGS				NEXT ASS'Y:					SCALE	SIZE B	DWG. NO. D990632-00-C	REV.
6		5		4		3		2	CAD FILE	SCALE	SHEET 2 of 2	STD VER. 01