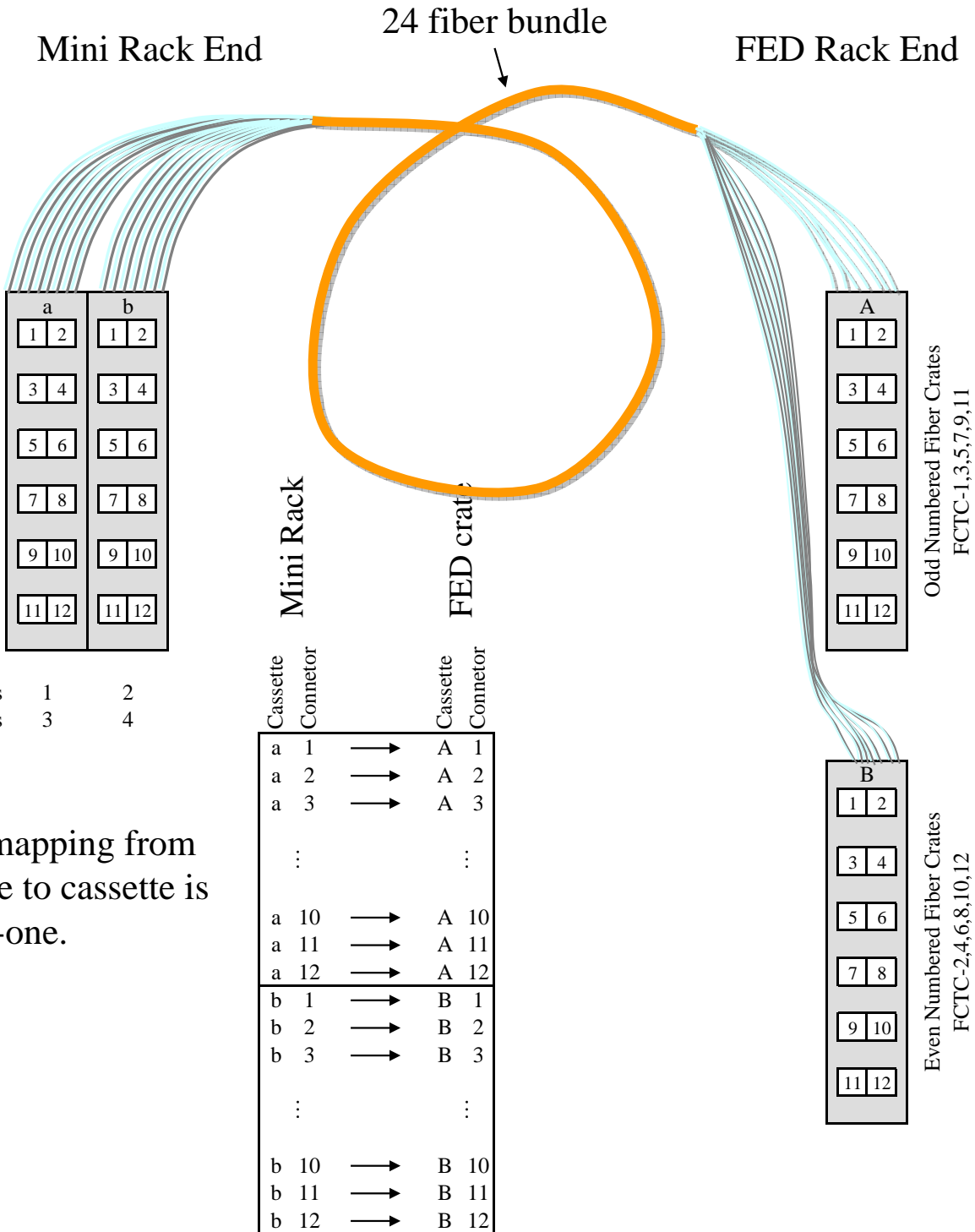


# EMU CSC DAQ Fiber Optics

## Mapping of Fiber Connections per Bundle



Fiber mapping from cassette to cassette is one-to-one.

# CSC FED DAQ Fiber Patch Panels

## Fiber Cassette Termination Crates

(with 60 degree rotation per station)

### (FCTC-1)

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	X5U31(1) VME+1/2	X5U31(3) VME+1/3	X5R41(3) VME+2/2	X3A41(1) VME+3/3	X1R51(3) VME+4/4		X5R31(3) VME+1/4	X5R31(1) VME+1/5	X3A41(3) VME+2/3	X1R41(3) VME+3/4	X1U51(1) VME+4/5	
VCC GbE						Filler Panel						Filler Panel
Spare	Spare	Spare	Spare	Spare	Spare		Spare	Spare	Spare	Spare	Spare	
Spare	Spare	Spare	Spare	Spare	Spare		Spare	Spare	Spare	Spare	Spare	
(/3,/3,/2,/2)	5	8	14	20	Spare		11	14	20	26	Spare	
/2	5	8	13	19	Spare		11	14	19	25	Spare	
/1	5	8	7	10	13		11	14	10	13	16	

#### Color Key:

To GbE Switch									
Switch position	1	2	3	8	9	10			
To FED Crate									
VME Slot	4	5	6	7	9	10	11	12	13

# CSC FED DAQ Fiber Patch Panels
















## Fiber Cassette Termination Crates

(with 60 degree rotation per station)

### (FCTC-2)

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	X5U31(2) VME+1/2	X5U31(4) VME+1/3	X5R41(4) VME+2/2	X3A41(2) VME+3/3	X1R51(4) VME+4/4		X5R31(4) VME+1/4	X5R31(2) VME+1/5	X3A41(4) VME+2/3	X1R41(4) VME+3/4	X1U51(2) VME+4/5	
Chamber Types	(/3,/3,/2,/2)	4	7	12	18	Spare		10	13	18	24	Spare
	/2	4	7	11	17	Spare		10	13	17	23	Spare
	/1	4	7	6	9	12	Filler Panel	10	13	9	12	15
	(/3,/3,/2,/2)	3	6	10	16	Spare		9	12	16	22	Spare
	/2	3	6	9	15	Spare		9	12	15	21	Spare
	/1	3	6	5	8	11		9	12	8	11	14

#### Color Key:

To GbE Switch									
Switch position	1	2	3	8	9	10			
To FED Crate									
VME Slot	4	5	6	7	9	10	11	12	13

# CSC FED DAQ Fiber Patch Panels

## Fiber Cassette Termination Crates

(with 60 degree rotation per station)

### (FCTC-3)

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12	
MiniRack and Peripheral Crate	X3A31(3) VME+1/ 6	X3A31(1) VME+1/ 7	X1R41(1) VME+2/ 4	X1U41(1) VME+3/ 5	X3J51(1) VME+4/ 6			X5E31(1) VME-1/ 2	X5E31(3) VME-1/ 3	X5L41(3) VME-2/ 2	X3S41(3) VME-3/ 3	X1L51(3) VME-4/ 4	
VCC GbE													
Chamber Types	Spare	Spare	Spare	Spare	Spare	Filler Panel	Filler Panel	Spare	Spare	Spare	Spare	Spare	
	Spare	Spare	Spare	Spare	Spare			Spare	Spare	Spare	Spare	Spare	Spare
	(/3,/3,/2,/2) 17	20	26	32	Spare			5	8	14	20	Spare	
	/2 17	20	25	31	Spare			5	8	13	19	Spare	
/1 17	20	13	16	1			5	8	7	10	13		

#### Color Key:

To GbE Switch									
Switch position	1	2	3	8	9	10			
To FED Crate									
VME Slot	4	5	6	7	9	10	11	12	13

# CSC FED DAQ Fiber Patch Panels
















## Fiber Cassette Termination Crates

(with 60 degree rotation per station)

### (FCTC-4)

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	X3A31(4) VME+1/6	X3A31(2) VME+1/7	X1R41(2) VME+2/4	X1U41(2) VME+3/5	X3J51(2) VME+4/6			X5E31(2) VME-1/2	X5E31(4) VME-1/3	X5L41(4) VME-2/2	X3S41(4) VME-3/3	X1L51(4) VME-4/4
Chamber Types	(/3,/3,/2,/2)	16	19	24	30	Spare	Filler Panel	4	7	12	18	Spare
	/2	16	19	23	29	Spare		4	7	11	17	Spare
	/1	16	19	12	15	18		4	7	6	9	12
	(/3,/3,/2,/2)	15	18	22	28	Spare		3	6	10	16	Spare
	/2	15	18	21	27	Spare		3	6	9	15	Spare
	/1	15	18	11	14	17		3	6	5	8	11

#### Color Key:

To GbE Switch									
Switch position	1	2	3	8	9	10			
To FED Crate									
VME Slot	4	5	6	7	9	10	11	12	13

# CSC FED DAQ Fiber Patch Panels

## Fiber Cassette Termination Crates

(with 60 degree rotation per station)

### (FCTC-5)

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate		X5L31(3) VME-1/4	X5L31(1) VME-1/5	X3S41(1) VME-2/3	X1L41(3) VME-3/4	X1E51(1) VME-4/5		X3S31(3) VME-1/6	X3S31(1) VME-1/7	X1L41(1) VME-2/4	X1E41(1) VME-3/5	X3V51(1) VME-4/6
VCC GbE												
Chamber Types (/3,/3,/2,/2) /2 /1	Filler Panel	Spare	Spare	Spare	Spare	Spare	Filler Panel	Spare	Spare	Spare	Spare	Spare
		Spare	Spare	Spare	Spare	Spare		Spare	Spare	Spare	Spare	Spare
		11	14	20	26	Spare		17	20	26	32	Spare
		11	14	19	25	Spare		17	20	25	31	Spare
	11	14	10	13	16		17	20	13	16	1	

#### Color Key:

To GbE Switch									
Switch position	1	2	3	8	9	10			
To FED Crate									
VME Slot	4	5	6	7	9	10	11	12	13

# CSC FED DAQ Fiber Patch Panels
















## Fiber Cassette Termination Crates

(with 60 degree rotation per station)

### (FCTC-6)

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate		X5L31(4) VME-1/4	X5L31(2) VME-1/5	X3S41(2) VME-2/3	X1L41(4) VME-3/4	X1E51(2) VME-4/5		X3S31(4) VME-1/6	X3S31(2) VME-1/7	X1L41(2) VME-2/4	X1E41(2) VME-3/5	X3V51(2) VME-4/6
Chamber Types												
(/3,/3,/2,/2)	Filler Panel	10	13	18	24	Spare	Filler Panel	16	19	24	30	Spare
/2		10	13	17	23	Spare		16	19	23	29	Spare
/1		10	13	9	12	15		16	19	12	15	18
(/3,/3,/2,/2)	Filler Panel	9	12	16	22	Spare	Filler Panel	15	18	22	28	Spare
/2		9	12	15	21	Spare		15	18	21	27	Spare
/1		9	12	8	11	14		15	18	11	14	17

#### Color Key:

To GbE Switch									
Switch position	1	2	3	8	9	10			
To FED Crate									
VME Slot	4	5	6	7	9	10	11	12	13

# CSC FED DAQ Fiber Patch Panels

## Fiber Cassette Termination Crates

(with 60 degree rotation per station)

### (FCTC-7)

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	X1R31(3) VME+1/ 8	X1R31(1) VME+1/ 9	X1U41(3) VME+2/ 5	X3J41(3) VME+3/ 6	X5U51(1) VME+4/ 1		X1U31(1) VME+1/ 10	X1U31(3) VME+1/ 11	X3J41(1) VME+2/ 6	X5U41(1) VME+3/ 1	X5R51(1) VME+4/ 2	
VCC GbE						Filler Panel						Filler Panel
Spare	Spare	Spare	Spare	Spare	Spare		Spare	Spare	Spare	Spare	Spare	
Spare	Spare	Spare	Spare	Spare	Spare		Spare	Spare	Spare	Spare	Spare	
(/3,/3,/2,/2)	23	26	32	2	Spare		29	32	2	8	Spare	
/2	23	26	31	1	Spare		29	32	1	7	Spare	
/1	23	26	16	1	4		29	32	1	4	7	

#### Color Key:

To GbE Switch									
Switch position	1	2	3	8	9	10			
To FED Crate									
VME Slot	4	5	6	7	9	10	11	12	13

# CSC FED DAQ Fiber Patch Panels
















## Fiber Cassette Termination Crates

(with 60 degree rotation per station)

### (FCTC-8)

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12	
MiniRack and Peripheral Crate	X1R31(4) VME+1/ 8	X1R31(2) VME+1/ 9	X1U41(4) VME+2/ 5	X3J41(4) VME+3/ 6	X5U51(2) VME+4/ 1		X1U31(2) VME+1/ 10	X1U31(4) VME+1/ 11	X3J41(2) VME+2/ 6	X5U41(2) VME+3/ 1	X5R51(2) VME+4/ 2		
Chamber Types	(/3,/3,/2,/2)	22	25	30	36	Spare		28	31	36	6	Spare	
	/2	22	25	29	35	Spare		28	31	35	5	Spare	
	/1	22	25	15	18	3	Filler Panel	28	31	18	3	6	Filler Panel
	(/3,/3,/2,/2)	21	24	28	34	Spare		27	30	34	4	Spare	
	/2	21	24	27	33	Spare		27	30	33	3	Spare	
	/1	21	24	14	17	2		27	30	17	2	5	

#### Color Key:

To GbE Switch									
Switch position	1	2	3	8	9	10			
To FED Crate									
VME Slot	4	5	6	7	9	10	11	12	13

# CSC FED DAQ Fiber Patch Panels

## Fiber Cassette Termination Crates

(with 60 degree rotation per station)

### (FCTC-9)

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12	
MiniRack and Peripheral Crate	X3J31(1) VME+1/ 12	X3J31(3) VME+1/ 1	X5U41(3) VME+2/ 1	X5R41(1) VME+3/ 2	X3A51(3) VME+4/ 3			X1L31(3) VME-1/ 8	X1L31(1) VME-1/ 9	X1E41(3) VME-2/ 5	X3V41(1) VME-3/ 6	X5E51(1) VME-4/ 1	
VCC GbE													
Chamber Types	Spare	Spare	Spare	Spare	Spare	Filler Panel	Filler Panel	Spare	Spare	Spare	Spare	Spare	
	Spare	Spare	Spare	Spare	Spare			Spare	Spare	Spare	Spare	Spare	Spare
	(/3,/3,/2,/2) 35	2	8	14	Spare			23	26	32	2	Spare	
	/2 35	2	7	13	Spare			23	26	31	1	Spare	
/1 35	2	4	7	10			23	26	16	1	4		

#### Color Key:

To GbE Switch									
Switch position	1	2	3	8	9	10			
To FED Crate									
VME Slot	4	5	6	7	9	10	11	12	13

# CSC FED DAQ Fiber Patch Panels

## Fiber Cassette Termination Crates

(with 60 degree rotation per station)

### (FCTC-10)

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	X3J31(2) VME+1/12	X3J31(4) VME+1/1	X5U41(4) VME+2/1	X5R41(2) VME+3/2	X3A51(4) VME+4/3			X1L31(4) VME-1/8	X1L31(2) VME-1/9	X1E41(4) VME-2/5	X3V41(2) VME-3/6	X5E51(2) VME-4/1
Chamber Types	(/3,/3,/2,/2)	(/3,/3,/2,/2)	(/3,/3,/2,/2)	(/3,/3,/2,/2)	(/3,/3,/2,/2)			(/3,/3,/2,/2)	(/3,/3,/2,/2)	(/3,/3,/2,/2)	(/3,/3,/2,/2)	(/3,/3,/2,/2)
/2	34	1	6	12	Spare	Filler Panel	Filler Panel	22	25	30	36	Spare
/1	34	1	5	11	Spare			22	25	29	35	Spare
(/3,/3,/2,/2)	34	1	3	6	9			22	25	15	18	3
/2	33	36	4	10	Spare			21	24	28	34	Spare
/1	33	36	3	9	Spare			21	24	27	33	Spare
	33	36	2	5	8			21	24	14	17	2

Color Key:

To GbE Switch									
Switch position	1	2	3	8	9	10			
To FED Crate									
VME Slot	4	5	6	7	9	10	11	12	13

# CSC FED DAQ Fiber Patch Panels

## Fiber Cassette Termination Crates

(with 60 degree rotation per station)

### (FCTC-11)

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate		X1E31(1) VME-1/ 10	X1E31(3) VME-1/ 11	X3V41(3) VME-2/ 6	X5E41(1) VME-3/ 1	X5L51(1) VME-4/ 2		X3V31(1) VME-1/ 12	X3V31(3) VME-1/ 1	X5E41(3) VME-2/ 1	X5L41(1) VME-3/ 2	X3S51(3) VME-4/ 3
VCC GbE												
Chamber Types (/3,/3,/2,/2) /2 /1	Filler Panel	Spare	Spare	Spare	Spare	Spare	Filler Panel	Spare	Spare	Spare	Spare	Spare
		Spare	Spare	Spare	Spare	Spare		Spare	Spare	Spare	Spare	Spare

#### Color Key:

To GbE Switch									
Switch position	1	2	3	8	9	10			
To FED Crate									
VME Slot	4	5	6	7	9	10	11	12	13

# CSC FED DAQ Fiber Patch Panels
















## Fiber Cassette Termination Crates

(with 60 degree rotation per station)

### (FCTC-12)

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12	
MiniRack and Peripheral Crate		X1E3I(2) VME-1/ 10	X1E3I(4) VME-1/ 11	X3V4I(4) VME-2/ 6	X5E4I(2) VME-3/ 1	X5L5I(2) VME-4/ 2		X3V3I(2) VME-1/ 12	X3V3I(4) VME-1/ 1	X5E4I(4) VME-2/ 1	X5L4I(2) VME-3/ 2	X3S5I(4) VME-4/ 3	
Chamber Types	(/3,/3,/2,/2)	Filler Panel	28	31	36	6	Spare	Filler Panel	34	1	6	12	Spare
	/2		28	31	35	5	Spare		34	1	5	11	Spare
	/1		28	31	18	3	6		34	1	3	6	9
	(/3,/3,/2,/2)		27	30	34	4	Spare		33	36	4	10	Spare
	/2		27	30	33	3	Spare		33	36	3	9	Spare
	/1		27	30	17	2	5		33	36	2	5	8

#### Color Key:

To GbE Switch									
Switch position	1	2	3	8	9	10			
To FED Crate									
VME Slot	4	5	6	7	9	10	11	12	13

# Overview of Fiber Patch Panels for DAQ FED Crates

**(FCTC-1)**

Cassette Position	1	2	3	4	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	XSR3(H) VME-1/2	XSR3(H) VME-1/3	XSR3(H) VME-2/2	XSR4(H) VME-3/3	XSR3(H) VME-1/4	XSR3(H) VME-1/5	XSR3(H) VME-1/5	XSR4(H) VME-2/3	XSR3(H) VME-3/4	XLR3(H) VME-4/5	
VCC GbE	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine
Chamber Types					Filter Panel					Filter Panel	
(3,3,2,2)	3	8	14	20	11	14	20	26	32	38	44
2	5	8	15	19	11	14	19	25	31	37	43
1	5	8	10	15	11	14	19	25	31	37	43

**(FCTC-3)**

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	XSR3(H) VME-1/6	XSR3(H) VME-1/7	XSR4(H) VME-2/4	XLR4(H) VME-3/5	XSR3(H) VME-4/6			XSR3(H) VME-1/2	XSR3(H) VME-1/3	XSR4(H) VME-2/2	XSR3(H) VME-3/3	XLR3(H) VME-4/4
VCC GbE	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine
Chamber Types						Filter Panel	Filter Panel					
(3,3,2,2)	17	20	26	32	38	44	50	56	62	68	74	80
2	17	20	26	32	38	44	50	56	62	68	74	80
1	17	20	26	32	38	44	50	56	62	68	74	80

**(FCTC-5)**

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	XSR3(H) VME-1/4	XSR3(H) VME-1/5	XSR3(H) VME-2/3	XLR4(H) VME-3/4	XSR3(H) VME-4/5			XSR3(H) VME-1/6	XSR3(H) VME-1/7	XLR4(H) VME-2/8	XSR3(H) VME-3/5	XSR3(H) VME-4/6
VCC GbE	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine
Chamber Types	Filter Panel					Filter Panel						
(3,3,2,2)	11	14	20	26	32	38	44	50	56	62	68	74
2	11	14	20	26	32	38	44	50	56	62	68	74
1	11	14	19	25	31	37	43	49	55	61	67	73

**(FCTC-2)**

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	XSR3(H) VME-1/2	XSR3(H) VME-1/3	XSR4(H) VME-2/2	XSR4(H) VME-3/3	XSR3(H) VME-4/4			XSR3(H) VME-1/4	XSR3(H) VME-1/5	XSR4(H) VME-2/3	XSR3(H) VME-3/4	XLR3(H) VME-4/5
VCC GbE	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine
Chamber Types					Filter Panel						Filter Panel	
(3,3,2,2)	7	11	17	23	29	35	41	47	53	59	65	71
2	7	11	17	23	29	35	41	47	53	59	65	71
1	7	11	16	22	28	34	40	46	52	58	64	70

**(FCTC-4)**

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	XSR3(H) VME-1/6	XSR3(H) VME-1/7	XSR4(H) VME-2/4	XLR4(H) VME-3/5	XSR3(H) VME-4/6			XSR3(H) VME-1/2	XSR3(H) VME-1/3	XSR4(H) VME-2/2	XSR3(H) VME-3/3	XLR3(H) VME-4/4
VCC GbE	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine
Chamber Types						Filter Panel	Filter Panel					
(3,3,2,2)	16	19	24	29	34	39	44	49	54	59	64	69
2	16	19	24	29	34	39	44	49	54	59	64	69
1	16	19	24	29	34	39	44	49	54	59	64	69

**(FCTC-6)**

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	XSR3(H) VME-1/4	XSR3(H) VME-1/5	XSR3(H) VME-2/3	XLR4(H) VME-3/4	XSR3(H) VME-4/5			XSR3(H) VME-1/6	XSR3(H) VME-1/7	XLR4(H) VME-2/8	XSR3(H) VME-3/5	XSR3(H) VME-4/6
VCC GbE	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine
Chamber Types	Filter Panel					Filter Panel						
(3,3,2,2)	10	15	20	25	30	35	40	45	50	55	60	65
2	10	15	20	25	30	35	40	45	50	55	60	65
1	10	15	20	25	30	35	40	45	50	55	60	65

**(FCTC-7)**

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	XSR3(H) VME-1/8	XSR3(H) VME-1/9	XLR4(H) VME-2/5	XSR4(H) VME-3/6	XSR3(H) VME-4/1			XLR3(H) VME-1/10	XSR3(H) VME-1/11	XSR4(H) VME-2/6	XSR3(H) VME-3/1	XSR3(H) VME-4/2
VCC GbE	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine
Chamber Types					Filter Panel						Filter Panel	
(3,3,2,2)	23	26	32	38	44	50	56	62	68	74	80	86
2	23	26	31	37	43	49	55	61	67	73	79	85
1	23	26	31	37	43	49	55	61	67	73	79	85

**(FCTC-9)**

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	XSR3(H) VME-1/12	XSR3(H) VME-1/1	XSR4(H) VME-2/1	XSR3(H) VME-3/2	XSR3(H) VME-4/3			XSR3(H) VME-1/8	XSR3(H) VME-1/9	XSR4(H) VME-2/5	XSR3(H) VME-3/6	XSR3(H) VME-4/1
VCC GbE	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine
Chamber Types						Filter Panel	Filter Panel					
(3,3,2,2)	35	41	47	53	59	65	71	77	83	89	95	101
2	35	41	47	53	59	65	71	77	83	89	95	101
1	35	41	47	53	59	65	71	77	83	89	95	101

**(FCTC-11)**

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	XSR3(H) VME-1/10	XSR3(H) VME-1/11	XSR4(H) VME-2/6	XSR3(H) VME-3/1	XSR3(H) VME-4/2			XSR3(H) VME-1/12	XSR3(H) VME-1/1	XSR4(H) VME-2/7	XSR3(H) VME-3/2	XSR3(H) VME-4/3
VCC GbE	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine
Chamber Types	Filter Panel					Filter Panel						
(3,3,2,2)	29	32	38	44	50	56	62	68	74	80	86	92
2	29	32	38	44	50	56	62	68	74	80	86	92
1	29	32	38	44	50	56	62	68	74	80	86	92

**(FCTC-8)**

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	XSR3(H) VME-1/8	XSR3(H) VME-1/9	XLR4(H) VME-2/5	XSR4(H) VME-3/6	XSR3(H) VME-4/1			XLR3(H) VME-1/10	XSR3(H) VME-1/11	XSR4(H) VME-2/6	XSR3(H) VME-3/1	XSR3(H) VME-4/2
VCC GbE	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine
Chamber Types					Filter Panel						Filter Panel	
(3,3,2,2)	22	25	30	36	42	48	54	60	66	72	78	84
2	22	25	30	36	42	48	54	60	66	72	78	84
1	22	25	30	36	42	48	54	60	66	72	78	84

**(FCTC-10)**

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	XSR3(H) VME-1/12	XSR3(H) VME-1/1	XSR4(H) VME-2/1	XSR3(H) VME-3/2	XSR3(H) VME-4/3			XLR3(H) VME-1/8	XSR3(H) VME-1/9	XSR4(H) VME-2/5	XSR3(H) VME-3/6	XSR3(H) VME-4/1
VCC GbE	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine
Chamber Types						Filter Panel	Filter Panel					
(3,3,2,2)	34	40	46	52	58	64	70	76	82	88	94	100
2	34	40	46	52	58	64	70	76	82	88	94	100
1	34	40	46	52	58	64	70	76	82	88	94	100

**(FCTC-12)**

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
MiniRack and Peripheral Crate	XSR3(H) VME-1/10	XSR3(H) VME-1/11	XSR4(H) VME-2/6	XSR3(H) VME-3/1	XSR3(H) VME-4/2			XSR3(H) VME-1/12	XSR3(H) VME-1/1	XSR4(H) VME-2/7	XSR3(H) VME-3/2	XSR3(H) VME-4/3
VCC GbE	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine	Spine
Chamber Types	Filter Panel					Filter Panel						
(3,3,2,2)	28	31	37	43	49	55	61	67	73	79	85	91
2	28	31	37	43	49	55	61	67	73	79	85	91
1	28	31	37	43	49	55	61	67	73	79	85	91

# Peripheral Crate Rack Fiber Patch Panels

## Fiber Cassette Termination Crates at Peripheral Crate Racks

Cassette Position	1	2	3	4	5	6	7	8	9	10	11	12
Peripheral Crate	"Bottom"		"Top"			"Bottom" "Top"		"Bottom" "Top"				
	1	19	1	19	Filler Panel	M1	M1	13	13	Filler Panel	Filler Panel	Filler Panel
	Spare	11	Spare	11		M2	M2	sp	sp			
	Spare	5	Spare	5		M3	M3	nc	nc			
	21	17	21	17		sp.	sp.	nc	nc			
	15	9	15	9		sp.	sp.	nc	nc			
	7	3	7	3		sp.	sp.	nc	nc			

Note: The numbers on the cassette ports indicate the peripheral crate slots numbers.  
 Abbreviations: 'sp' indicates spare; 'nc' indicates no connection;  
 M1, M2, and M3, refer to MPC connectors (slot 12) M1 = top, M2 = middle, M3 = bottom;

DAQ path, VCC & DMB's, multi-mode, duplex, LC connectors.

Trigger path, MPC, multi-mode, simplex, LC connectors.

TTC, CCB, single-mode, simplex, ST connector.

## Fiber Cassette Mapping for DAQ Path

	FED		On Disk			
	Crate #	Cst. Pos.	Mini Rack	Cst. Pos.	Specification	Peripheral Crate
FCTC1	1	1	X5U31	1	X5U31(1)	VME+1/2
	1	2	X5U31	3	X5U31(3)	VME+1/3
	1	3	X5R41	3	X5R41(3)	VME+2/2
	1	4	X3A41	1	X3A41(1)	VME+3/3
	1	5	X1R51	3	X1R51(3)	VME+4/4
	1	6	N/A		N/A()	
	1	7	X5R31	3	X5R31(3)	VME+1/4
	1	8	X5R31	1	X5R31(1)	VME+1/5
	1	9	X3A41	3	X3A41(3)	VME+2/3
	1	10	X1R41	3	X1R41(3)	VME+3/4
	1	11	X1U51	1	X1U51(1)	VME+4/5
	1	12	N/A		N/A()	
FCTC2	2	1	X5U31	2	X5U31(2)	VME+1/2
	2	2	X5U31	4	X5U31(4)	VME+1/3
	2	3	X5R41	4	X5R41(4)	VME+2/2
	2	4	X3A41	2	X3A41(2)	VME+3/3
	2	5	X1R51	4	X1R51(4)	VME+4/4
	2	6	N/A		N/A()	
	2	7	X5R31	4	X5R31(4)	VME+1/4
	2	8	X5R31	2	X5R31(2)	VME+1/5
	2	9	X3A41	4	X3A41(4)	VME+2/3
	2	10	X1R41	4	X1R41(4)	VME+3/4
	2	11	X1U51	2	X1U51(2)	VME+4/5
	2	12	N/A		N/A()	
FCTC3	3	1	X3A31	3	X3A31(3)	VME+1/6
	3	2	X3A31	1	X3A31(1)	VME+1/7
	3	3	X1R41	1	X1R41(1)	VME+2/4
	3	4	X1U41	1	X1U41(1)	VME+3/5
	3	5	X3J51	1	X3J51(1)	VME+4/6
	3	6	N/A		N/A()	
	3	7	N/A		N/A()	
	3	8	X5E31	1	X5E31(1)	VME-1/2
	3	9	X5E31	3	X5E31(3)	VME-1/3
	3	10	X5L41	3	X5L41(3)	VME-2/2
	3	11	X3S41	3	X3S41(3)	VME-3/3
	3	12	X1L51	3	X1L51(3)	VME-4/4
FCTC4	4	1	X3A31	4	X3A31(4)	VME+1/6
	4	2	X3A31	2	X3A31(2)	VME+1/7
	4	3	X1R41	2	X1R41(2)	VME+2/4
	4	4	X1U41	2	X1U41(2)	VME+3/5
	4	5	X3J51	2	X3J51(2)	VME+4/6
	4	6	N/A		N/A()	
	4	7	N/A		N/A()	
	4	8	X5E31	2	X5E31(2)	VME-1/2
	4	9	X5E31	4	X5E31(4)	VME-1/3
	4	10	X5L41	4	X5L41(4)	VME-2/2
	4	11	X3S41	4	X3S41(4)	VME-3/3
	4	12	X1L51	4	X1L51(4)	VME-4/4

	On Disk				FED		
	Trigger Sector	Mini Rack	Cst. Pos.	Peripheral Crate	Crate #	Cst. Pos.	Full Specification
Trig Sect 1	X5U31	X5U31	1	VME+1/2	1	1	FCTC1(1)
		X5U31	2	VME+1/2	2	1	FCTC2(1)
		X5U31	3	VME+1/3	1	2	FCTC1(2)
		X5U31	4	VME+1/3	2	2	FCTC2(2)
Trig Sect 2	X5R31	X5R31	1	VME+1/5	1	8	FCTC1(8)
		X5R31	2	VME+1/5	2	8	FCTC2(8)
		X5R31	3	VME+1/4	1	7	FCTC1(7)
		X5R31	4	VME+1/4	2	7	FCTC2(7)
Trig Sect 3	X3A31	X3A31	1	VME+1/7	3	2	FCTC3(2)
		X3A31	2	VME+1/7	4	2	FCTC4(2)
		X3A31	3	VME+1/6	3	1	FCTC3(1)
		X3A31	4	VME+1/6	4	1	FCTC4(1)
Trig Sect 4	X1R31	X1R31	1	VME+1/9	7	2	FCTC7(2)
		X1R31	2	VME+1/9	8	2	FCTC8(2)
		X1R31	3	VME+1/8	7	1	FCTC7(1)
		X1R31	4	VME+1/8	8	1	FCTC8(1)
Trig Sect 5	X1U31	X1U31	1	VME+1/10	7	7	FCTC7(7)
		X1U31	2	VME+1/10	8	7	FCTC8(7)
		X1U31	3	VME+1/11	7	8	FCTC7(8)
		X1U31	4	VME+1/11	8	8	FCTC8(8)
Trig Sect 6	X3J31	X3J31	1	VME+1/12	9	1	FCTC9(1)
		X3J31	2	VME+1/12	10	1	FCTC10(1)
		X3J31	3	VME+1/1	9	2	FCTC9(2)
		X3J31	4	VME+1/1	10	2	FCTC10(2)
Trig Sect 1	X5U41	X5U41	1	VME+3/1	7	10	FCTC7(10)
		X5U41	2	VME+3/1	8	10	FCTC8(10)
		X5U41	3	VME+2/1	9	3	FCTC9(3)
		X5U41	4	VME+2/1	10	3	FCTC10(3)
Trig Sect 2	X5R41	X5R41	1	VME+3/2	9	4	FCTC9(4)
		X5R41	2	VME+3/2	10	4	FCTC10(4)
		X5R41	3	VME+2/2	1	3	FCTC1(3)
		X5R41	4	VME+2/2	2	3	FCTC2(3)
Trig Sect 3	X3A41	X3A41	1	VME+3/3	1	4	FCTC1(4)
		X3A41	2	VME+3/3	2	4	FCTC2(4)
		X3A41	3	VME+2/3	1	9	FCTC1(9)
		X3A41	4	VME+2/3	2	9	FCTC2(9)
Trig Sect 4	X1R41	X1R41	1	VME+2/4	3	3	FCTC3(3)
		X1R41	2	VME+2/4	4	3	FCTC4(3)
		X1R41	3	VME+3/4	1	10	FCTC1(10)
		X1R41	4	VME+3/4	2	10	FCTC2(10)
Trig Sect 5	X1U41	X1U41	1	VME+3/5	3	4	FCTC3(4)
		X1U41	2	VME+3/5	4	4	FCTC4(4)
		X1U41	3	VME+2/5	7	3	FCTC7(3)
		X1U41	4	VME+2/5	8	3	FCTC8(3)
Trig Sect 6	X3J41	X3J41	1	VME+2/6	7	9	FCTC7(9)
		X3J41	2	VME+2/6	8	9	FCTC8(9)
		X3J41	3	VME+3/6	7	4	FCTC7(4)
		X3J41	4	VME+3/6	8	4	FCTC8(4)

## Fiber Cassette Mapping for DAQ Path

FED		On Disk				
Crate #	Cst. Pos.	Mini Rack	Cst. Pos.	Specification	Peripheral Crate	
FCTC5	5	1	N/A		N/A()	
	5	2	X5L31	3	X5L31(3)	VME-1/4
	5	3	X5L31	1	X5L31(1)	VME-1/5
	5	4	X3S41	1	X3S41(1)	VME-2/3
	5	5	X1L41	3	X1L41(3)	VME-3/4
	5	6	X1E51	1	X1E51(1)	VME-4/5
	5	7	N/A		N/A()	
	5	8	X3S31	3	X3S31(3)	VME-1/6
	5	9	X3S31	1	X3S31(1)	VME-1/7
	5	10	X1L41	1	X1L41(1)	VME-2/4
	5	11	X1E41	1	X1E41(1)	VME-3/5
	5	12	X3V51	1	X3V51(1)	VME-4/6
FCTC6	6	1	N/A		N/A()	
	6	2	X5L31	4	X5L31(4)	VME-1/4
	6	3	X5L31	2	X5L31(2)	VME-1/5
	6	4	X3S41	2	X3S41(2)	VME-2/3
	6	5	X1L41	4	X1L41(4)	VME-3/4
	6	6	X1E51	2	X1E51(2)	VME-4/5
	6	7	N/A		N/A()	
	6	8	X3S31	4	X3S31(4)	VME-1/6
	6	9	X3S31	2	X3S31(2)	VME-1/7
	6	10	X1L41	2	X1L41(2)	VME-2/4
	6	11	X1E41	2	X1E41(2)	VME-3/5
	6	12	X3V51	2	X3V51(2)	VME-4/6
FCTC7	7	1	X1R31	3	X1R31(3)	VME+1/8
	7	2	X1R31	1	X1R31(1)	VME+1/9
	7	3	X1U41	3	X1U41(3)	VME+2/5
	7	4	X3J41	3	X3J41(3)	VME+3/6
	7	5	X5U51	1	X5U51(1)	VME+4/1
	7	6	N/A		N/A()	
	7	7	X1U31	1	X1U31(1)	VME+1/10
	7	8	X1U31	3	X1U31(3)	VME+1/11
	7	9	X3J41	1	X3J41(1)	VME+2/6
	7	10	X5U41	1	X5U41(1)	VME+3/1
	7	11	X5R51	1	X5R51(1)	VME+4/2
	7	12	N/A		N/A()	
FCTC8	8	1	X1R31	4	X1R31(4)	VME+1/8
	8	2	X1R31	2	X1R31(2)	VME+1/9
	8	3	X1U41	4	X1U41(4)	VME+2/5
	8	4	X3J41	4	X3J41(4)	VME+3/6
	8	5	X5U51	2	X5U51(2)	VME+4/1
	8	6	N/A		N/A()	
	8	7	X1U31	2	X1U31(2)	VME+1/10
	8	8	X1U31	4	X1U31(4)	VME+1/11
	8	9	X3J41	2	X3J41(2)	VME+2/6
	8	10	X5U41	2	X5U41(2)	VME+3/1
	8	11	X5R51	2	X5R51(2)	VME+4/2
	8	12	N/A		N/A()	

On Disk				FED			
Trigger Sector	Mini Rack	Cst. Pos.	Peripheral Crate	Crate #	Cst. Pos.	Full Specification	
Trig Sect 1	X5U51	X5U51	1	VME+4/1	7	5	FCTC7(5)
		X5U51	2	VME+4/1	8	5	FCTC8(5)
		X5U51	3	N/A			
Trig Sect 2	X5R51	X5U51	4	N/A			
		X5R51	1	VME+4/2	7	11	FCTC7(11)
		X5R51	2	VME+4/2	8	11	FCTC8(11)
Trig Sect 3	X3A51	X5R51	3	N/A			
		X5R51	4	N/A			
		X3A51	1	N/A			
Trig Sect 4	X1R51	X3A51	2	N/A			
		X3A51	3	VME+4/3	9	5	FCTC9(5)
		X3A51	4	VME+4/3	10	5	FCTC10(5)
Trig Sect 5	X1U51	X1R51	1	N/A			
		X1R51	2	N/A			
		X1R51	3	VME+4/4	1	5	FCTC1(5)
Trig Sect 6	X3J51	X1R51	4	VME+4/4	2	5	FCTC2(5)
		X1U51	1	VME+4/5	1	11	FCTC1(11)
		X1U51	2	VME+4/5	2	11	FCTC2(11)
Trig Sect 7	X3J51	X1U51	3	N/A			
		X1U51	4	N/A			
		X3J51	1	VME+4/6	3	5	FCTC3(5)
Trig Sect 8	X5E31	X3J51	2	VME+4/6	4	5	FCTC4(5)
		X3J51	3	N/A			
		X3J51	4	N/A			
Trig Sect 9	X5L31	X5E31	1	VME-1/2	3	8	FCTC3(8)
		X5E31	2	VME-1/2	4	8	FCTC4(8)
		X5E31	3	VME-1/3	3	9	FCTC3(9)
Trig Sect 10	X3S31	X5E31	4	VME-1/3	4	9	FCTC4(9)
		X5L31	1	VME-1/5	5	3	FCTC5(3)
		X5L31	2	VME-1/5	6	3	FCTC6(3)
Trig Sect 11	X1L31	X5L31	3	VME-1/4	5	2	FCTC5(2)
		X5L31	4	VME-1/4	6	2	FCTC6(2)
		X3S31	1	VME-1/7	5	9	FCTC5(9)
Trig Sect 12	X1E31	X3S31	2	VME-1/7	6	9	FCTC6(9)
		X3S31	3	VME-1/6	5	8	FCTC5(8)
		X3S31	4	VME-1/6	6	8	FCTC6(8)
Trig Sect 13	X3V31	X1L31	1	VME-1/9	9	9	FCTC9(9)
		X1L31	2	VME-1/9	10	9	FCTC10(9)
		X1L31	3	VME-1/8	9	8	FCTC9(8)
Trig Sect 14	X1E31	X1L31	4	VME-1/8	10	8	FCTC10(8)
		X1E31	1	VME-1/10	11	2	FCTC11(2)
		X1E31	2	VME-1/10	12	2	FCTC12(2)
Trig Sect 15	X3V31	X1E31	3	VME-1/11	11	3	FCTC11(3)
		X1E31	4	VME-1/11	12	3	FCTC12(3)
		X3V31	1	VME-1/12	11	8	FCTC11(8)
Trig Sect 16	X3V31	X3V31	2	VME-1/12	12	8	FCTC12(8)
		X3V31	3	VME-1/11	11	9	FCTC11(9)
		X3V31	4	VME-1/11	12	9	FCTC12(9)

## Fiber Cassette Mapping for DAQ Path

FED		On Disk					
Crate #	Cst. Pos.	Mini Rack	Cst. Pos.	Specification	Peripheral Crate		
FCTC9	9	1	X3J31	1	X3J31(1)	VME+1/12	
	9	2	X3J31	3	X3J31(3)	VME+1/1	
	9	3	X5U41	3	X5U41(3)	VME+2/1	
	9	4	X5R41	1	X5R41(1)	VME+3/2	
	9	5	X3A51	3	X3A51(3)	VME+4/3	
	9	6	N/A		N/A()		
	9	7	N/A		N/A()		
	9	8	X1L31	3	X1L31(3)	VME-1/8	
	9	9	X1L31	1	X1L31(1)	VME-1/9	
	9	10	X1E41	3	X1E41(3)	VME-2/5	
	9	11	X3V41	1	X3V41(1)	VME-3/6	
	9	12	X5E51	1	X5E51(1)	VME-4/1	
FCTC10	10	1	X3J31	2	X3J31(2)	VME+1/12	
	10	2	X3J31	4	X3J31(4)	VME+1/1	
	10	3	X5U41	4	X5U41(4)	VME+2/1	
	10	4	X5R41	2	X5R41(2)	VME+3/2	
	10	5	X3A51	4	X3A51(4)	VME+4/3	
	10	6	N/A		N/A()		
	10	7	N/A		N/A()		
	10	8	X1L31	4	X1L31(4)	VME-1/8	
	10	9	X1L31	2	X1L31(2)	VME-1/9	
	10	10	X1E41	4	X1E41(4)	VME-2/5	
	10	11	X3V41	2	X3V41(2)	VME-3/6	
	10	12	X5E51	2	X5E51(2)	VME-4/1	
FCTC11	11	1	N/A		N/A()		
	11	2	X1E31	1	X1E31(1)	VME-1/10	
	11	3	X1E31	3	X1E31(3)	VME-1/11	
	11	4	X3V41	3	X3V41(3)	VME-2/6	
	11	5	X5E41	1	X5E41(1)	VME-3/1	
	11	6	X5L51	1	X5L51(1)	VME-4/2	
	11	7	N/A		N/A()		
	11	8	X3V31	1	X3V31(1)	VME-1/12	
	11	9	X3V31	3	X3V31(3)	VME-1/1	
	11	10	X5E41	3	X5E41(3)	VME-2/1	
	11	11	X5L41	1	X5L41(1)	VME-3/2	
	11	12	X3S51	3	X3S51(3)	VME-4/3	
FCTC12	12	1	N/A		N/A()		
	12	2	X1E31	2	X1E31(2)	VME-1/10	
	12	3	X1E31	4	X1E31(4)	VME-1/11	
	12	4	X3V41	4	X3V41(4)	VME-2/6	
	12	5	X5E41	2	X5E41(2)	VME-3/1	
	12	6	X5L51	2	X5L51(2)	VME-4/2	
	12	7	N/A		N/A()		
	12	8	X3V31	2	X3V31(2)	VME-1/12	
	12	9	X3V31	4	X3V31(4)	VME-1/1	
	12	10	X5E41	4	X5E41(4)	VME-2/1	
	12	11	X5L41	2	X5L41(2)	VME-3/2	
	12	12	X3S51	4	X3S51(4)	VME-4/3	

On Disk					FED		
Trigger Sector	Mini Rack	Cst. Pos.	Peripheral Crate		Crate #	Cst. Pos.	Full Specification
Trig Sect 1	X5E41	X5E41	1	VME-3/1	11	5	FCTC11(5)
		X5E41	2	VME-3/1	12	5	FCTC12(5)
		X5E41	3	VME-2/1	11	10	FCTC11(10)
		X5E41	4	VME-2/1	12	10	FCTC12(10)
Trig Sect 2	X5L41	X5L41	1	VME-3/2	11	11	FCTC11(11)
		X5L41	2	VME-3/2	12	11	FCTC12(11)
		X5L41	3	VME-2/2	3	10	FCTC3(10)
		X5L41	4	VME-2/2	4	10	FCTC4(10)
Trig Sect 3	X3S41	X3S41	1	VME-2/3	5	4	FCTC5(4)
		X3S41	2	VME-2/3	6	4	FCTC6(4)
		X3S41	3	VME-3/3	3	11	FCTC3(11)
		X3S41	4	VME-3/3	4	11	FCTC4(11)
Trig Sect 4	X1L41	X1L41	1	VME-2/4	5	10	FCTC5(10)
		X1L41	2	VME-2/4	6	10	FCTC6(10)
		X1L41	3	VME-3/4	5	5	FCTC5(5)
		X1L41	4	VME-3/4	6	5	FCTC6(5)
Trig Sect 5	X1E41	X1E41	1	VME-3/5	5	11	FCTC5(11)
		X1E41	2	VME-3/5	6	11	FCTC6(11)
		X1E41	3	VME-2/5	9	10	FCTC9(10)
		X1E41	4	VME-2/5	10	10	FCTC10(10)
Trig Sect 6	X3V41	X3V41	1	VME-3/6	9	11	FCTC9(11)
		X3V41	2	VME-3/6	10	11	FCTC10(11)
		X3V41	3	VME-2/6	11	4	FCTC11(4)
		X3V41	4	VME-2/6	12	4	FCTC12(4)
Trig Sect 1	X5E51	X5E51	1	VME-4/1	9	12	FCTC9(12)
		X5E51	2	VME-4/1	10	12	FCTC10(12)
		X5E51	3	N/A			
		X5E51	4	N/A			
Trig Sect 2	X5L51	X5L51	1	VME-4/2	11	6	FCTC11(6)
		X5L51	2	VME-4/2	12	6	FCTC12(6)
		X5L51	3	N/A			
		X5L51	4	N/A			
Trig Sect 3	X3S51	X3S51	1	N/A			
		X3S51	2	N/A			
		X3S51	3	VME-4/3	11	12	FCTC11(12)
		X3S51	4	VME-4/3	12	12	FCTC12(12)
Trig Sect 4	X1L51	X1L51	1	N/A			
		X1L51	2	N/A			
		X1L51	3	VME-4/4	3	12	FCTC3(12)
		X1L51	4	VME-4/4	4	12	FCTC4(12)
Trig Sect 5	X1E51	X1E51	1	VME-4/5	5	6	FCTC5(6)
		X1E51	2	VME-4/5	6	6	FCTC6(6)
		X1E51	3	N/A			
		X1E51	4	N/A			
Trig Sect 6	X3V51	X3V51	1	VME-4/6	5	12	FCTC5(12)
		X3V51	2	VME-4/6	6	12	FCTC6(12)
		X3V51	3	N/A			
		X3V51	4	N/A			

# S1G06

CERN

F1

CERN  
CAN1

CERN

## FCTC-1

FC4  
CERN

## FCTC-2

FC4

CERN  
HE1  
OSU

## CSC FED #1 S1G06i

(+ End Cap)

FED Crate  
CERN  
HE1  
OSU

## CSC FED #2 S1G06g

(+ End Cap)

FED Crate  
CERN  
HE1

CERN

## FCTC-7

FC4

CERN

## FCTC-8

FC4  
CERN

AD2

# S1G06

# S1G07

CERN

F1

CERN  
CAN1

CERN

## FCTC-3

FC4  
CERN

## FCTC-4

FC4

CERN  
HE1  
OSU

CERN  
HE1

1 2 3 4 5 6 7 8 9 10

## GbE Network Switches

OSU

GSM7212

CERN  
HE1

CERN

## FCTC-9

FC4

CERN

## FCTC-10

FC4  
CERN

AD2

# S1G07

# S1G08

CERN

F1

CERN  
CAN1

CERN

## FCTC-5

FC4  
CERN

## FCTC-6

FC4

CERN  
HE1  
OSU

## CSC FED #3 S1G08i

(- End Cap)

FED Crate  
CERN  
HE1  
OSU

## CSC FED #4 S1G08g

(- End Cap)

FED Crate  
CERN  
HE1

CERN

## FCTC-11

FC4

CERN

## FCTC-12

FC4  
CERN

AD2

# S1G08