

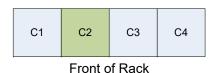
# ISC C2

#### Rack Orientation In LLO CER

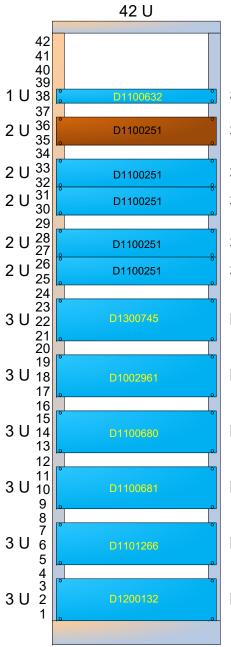


Front of Rack

Rack Orientation In LHO CER



### ISC LVEA Equipment Room Rack C2



Serial Concentrator for Timing

384 Ch. Binary Out 4 (SQZ Whitening)

384 Ch. Binary Out 1 (R1&R2 Whitening)

384 Ch. Binary Out 2 (R2&R4 Whitening)

384 Ch. Binary Out 3 (R5&R3 Whitening)

384 Ch. Binary Out 4 (R3&R4 Whitening)

Beckhoff EtherCAT 6 (PLL, VCO)

Beckhoff EtherCAT 1 (CM Servo, VCO, Delay Line)

Beckhoff EtherCAT 2 (Picomotor, Serial Ports, Modbus)

Beckhoff EtherCAT 3 (LSC Demod, VCO, Delay Line, RF Amps)

Beckhoff EtherCAT 4 (ASC Demod)

Beckhoff EtherCAT 5 (Beam Diverters, Shutters, Aux channels

# ISC C3

#### ISC LVEA Equipment Room Rack C3

42 U

D080702-A

D1000124

D080702-A

D1000124

D080702-A

D1000124

D1002182

D1000124

D1100974

D1000124

D1100262

D1100262

D1100262

D1001370

D080534

D1600498

D1000124

D1700008

D1000124

D1002182

D1000124

D1600499

D1000124

42

36 2 U

35

34 33 2 U

32 31 2 U

29 2 U

28 1 U 27

26 25 2 U

24

21

18

17

16 15 2 U

14

11

10

9

8 7

4

3

1 U 13

1Ŭ 12

1Ŭ

1 U

1Ŭ

1 U 6

1Ŭ 5

1 Ŭ

1 U 2

1 U

1 U 23

1 U 20

1 U 19

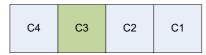
1 U 22

1Ŭ

3 U

1 U 30

## Rack Orientation In LLO CER



Front of Rack

Rack Orientation In LHO CER

Front of Rack

C3

C4

C2

C1



38 2 U RF Patch Panel 9 (TCS) 37

RF Patch Panel 32 (SQZ)

RF Patch Panel 33 (SQZ)

21.5 MHz RF Source

21.5 MHz Distribution Amplifier

35.5 MHz RF Source

35.5 MHz Distribution Amplifier

## 80 MHz RF Source

80 MHz Distribution Amplifier 40 MHz Frequency Divider

40 MHz Distribution Amplifier

10 MHz Frequency Divider

10 MHz Distribution Amplifier

RF Amp Concentrator 1 & 2 (1.5U each)

## RF Amp Concentrator 3 (1.5U)

RF Amp Concentrator 4 (1.5U)

Timing Comparator/Frequency Counter

Timing Fanout Module

RF Multiply-By-5 (200 MHz) 200 MHz Distribution Amplifier RF Divide-By-32 (6.25 MHz) 6.25 MHz Distribution Amplifier RF Divide-By-2 (3.125 MHz) 3.125 MHz Distribution Amplifier

RF Frequency Difference (42.375 MHz) 42.375 MHz Distribution Amplifier

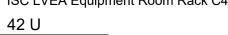
# Color Key

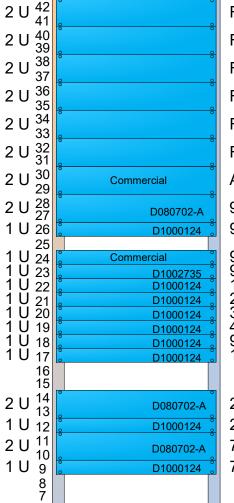


Status as of 13 June 2012

# ISC C4

## ISC LVEA Equipment Room Rack C4





6

5

4 3 2

1

RF Patch Panel 1

RF Patch Panel 2

RF Patch Panel 3

RF Patch Panel 4

RF Patch Panel 5

RF Patch Panel 6

Aeroflex 2023A Diagnostics

9.1 MHz RF Source

9.1 MHz Distribution Amplifier

9.1 MHz Harmonic Generator
9.1 MHz Harmonic Power Supply
18 MHz Distribution Amplifier
27 MHz Distribution Amplifier
36 MHz Distribution Amplifier
45 MHz Distribution Amplifier
90 MHz Distribution Amplifier
135 MHz Distribution Amplifier

24.078 MHz RF Source

24.078 MHz Distribution Amplifier

71 MHz RF Source

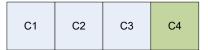
71 MHz Distribution Amplifier

#### Rack Orientation In LLO CER



Front of Rack

#### Rack Orientation In LHO CER



Front of Rack

1 U 1 U Ready for installation 1 U Built but not fully tested 1 U Still being built 1 U Not even started building