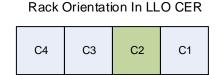


ISC C2

ISC LVEA Equipment Room Rack C2

42 U



Front of Rack



Rack Orientation In LHO CER

C2

C1

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

Front of Rack

C3

C4

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

2 U

2 U

2 U

36

35 34 33

29 2 U

28 1 U 27

26

24

21 1 Ŭ 20

18

16 15 2 U

14 13

10 9

> 8 7

6

5

4 3

2

 $2~U~^{32}_{31}$

1 U 30

2 U

1 U 23

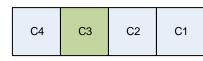
1 Ŭ

1 Ŭ 22

1 Ū 19

3 U 17

1 U 12 1 U 11



Rack Orientation In LLO CER

Front of Rack

42 RF Patch Panel 7 **RF Patch Panel 8** 39 38 RF Patch Panel 9 (TCS) 37

Rack Orientation In LHO CER



Front of Rack

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)

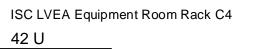
RF Amp Concentrator 3 (1.5U)

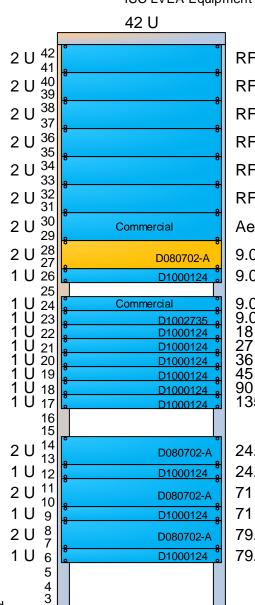
Timing Comparator/Frequency Counter Timing Fanout Module

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

Status as of 13 June 2012

ISC C4





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

9.099 MHz RF Source

9.099 MHz Distribution Amplifier

9.099 MHz Harmonic Generator 9.099 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

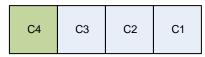
71 MHz RF Source

71 MHz Distribution Amplifier

79.2 MHz RF Source

79.2 MHz Distribution Amplifier

Rack Orientation In LLO CER



Front of Rack

Rack Orientation In LHO CER



Front of Rack

Color Key

Installed

Ready for installation

Still being built

Built but not fully tested

Not even started building

2

1 U

1 U

1 U

1 U