

## *Approach*

### Contents

<b>1</b>	<b>Firwares versions</b>	<b>1</b>
1.1	LDA . . . . .	1
1.2	DCC . . . . .	1
1.3	DIFv . . . . .	1
<b>2</b>	<b>Jumpers</b>	<b>1</b>
<b>3</b>	<b>Leds</b>	<b>2</b>
<b>4</b>	<b>Inventory</b>	<b>2</b>

This section remind the actual status and provide the methods we use to update them.

## 1 Firwares versions

### 1.1 LDA

There is 3 FPGA but only **main** is checkable via slow control.

- startup: ?
- main: **v23.02.2011** => limited to 112Mb/s
- hdmi: ?

Using the libLDA, you should read the LDA version from log:

```
INFO: LDA version: 03-23-2011
```

### 1.2 DCC

Using the libLDA, you should read the DCC versions from log:

```
INFO: DCC@1 version: 18-07, id=16, status=4
```

### 1.3 DIFv

We are now working with v2.2l version. This may be change at compilation.

	v1	v1.2	v2	v2.2l
Fifo fast cod missing		x	?	?
Provides fake headers				x
Inverse rng data orders				x

## 2 Jumpers

**Jumpers:**

- LDA:
  - j5: none

- j22: 3v3
- j31: 2v5
- j38: 0001 (marked side)
- switches:
 

	1	2	3	4	5	6	7	8
original:	1	0	1	1	0	1	1	1
modified:	1	0	1	0	1	1	1	1
- DIFF ECAL:
  - j1: none
  - j2: none
  - j3: 011
  - j4: 011
- DIFF DHCAL:
  - j6: none
  - j8: none

### 3 Leds

- LDA:
  - 6 red leds: ok
- DCC:
  - link: green=ok
  - clock: orangex2=ok
- DIFF ECAL:
  - green led = not programmed at power on
  - additionnal red led: blinking and next lited: ok

### 4 Inventory

- CCC:
  - **3**: LLR
  - **5**: LPNL
  - **6**: LLR
- LDA:
  - **9**: 5e:70:0c:d2:51:0a
  - **10**: 5e:70:0c:d2:79:68 Low HDMI mezzanine
  - **11**: 5e:70:0c:d2:5e:95 Low HDMI mezzanine
  - **12**: 5e:70:0c:d2:77:e8
  - **20**: 5e:70:0c:d2:78:34

- **21:** 5e:70:0c:d2:54:fe
  - **25:** 5e:70:0c:d2:5c:d6
- DCC:
  - **1:**
- DIFF ECAL:
  - **3:** LLR
  - **4:** LLR
  - **5:** LLR Warning
  - **6:** LLR
  - **7:** LLR
  - **13:** LLR
  - **14:** LLR
  - **15:** LLR
  - **16:** LLR
  - **17:** LLR
- DIFF DHCAL:
  - **5:** LPNL
  - **8:** LLR
  - **25:** LPNL
  - **27:** LLR
  - **30:** LLR
  - **35:** LLR
  - **36:** LLR
  - **40:** LLR
  - **154:** LPNL
- ASU DHCAL:
  - **7:** LLR