Deliver your EBD model with confidence

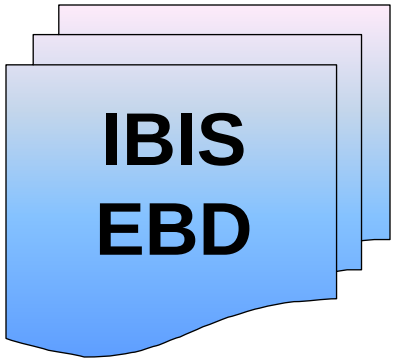
EBConverter V1.0™

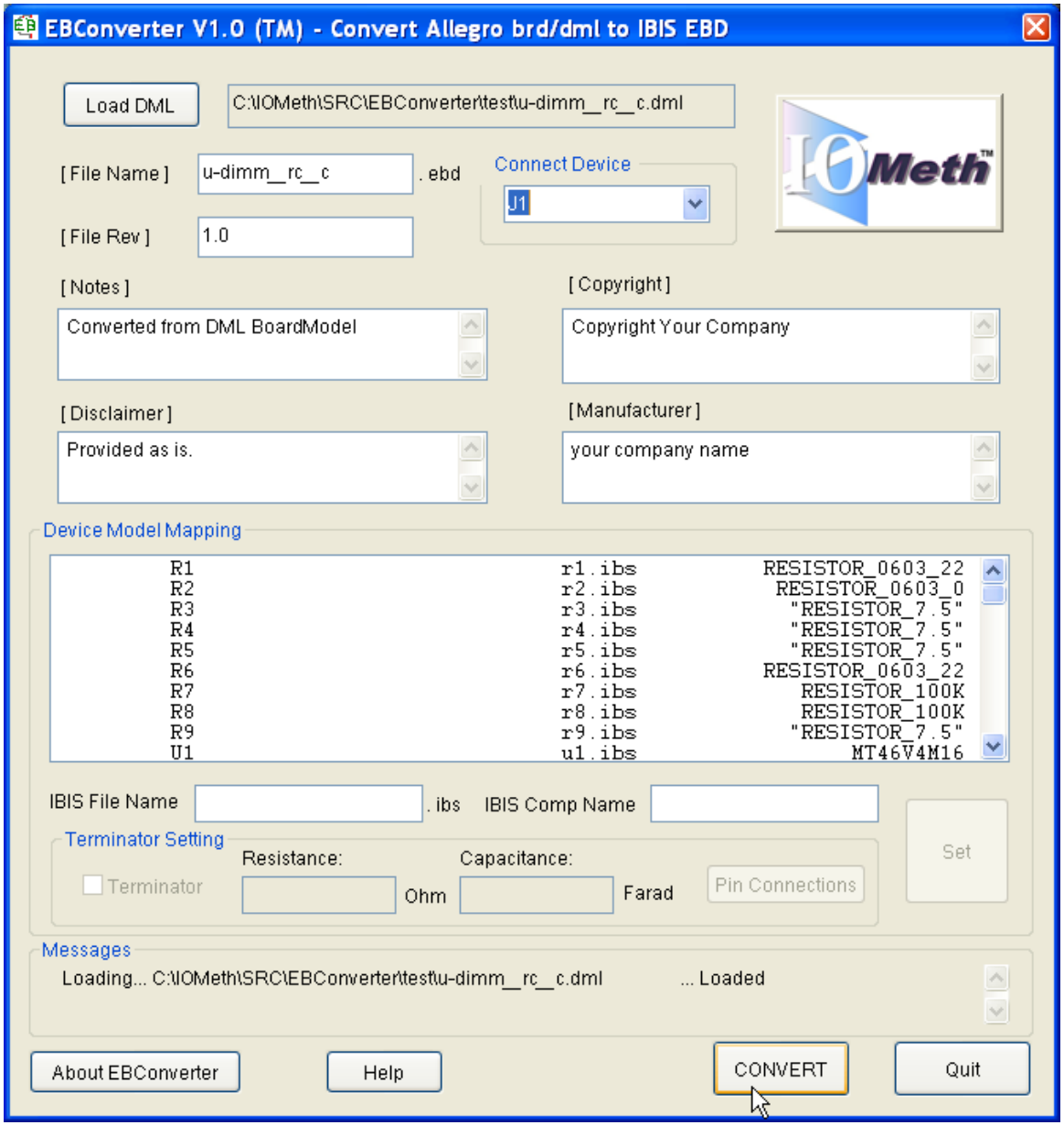
Release 200810

Doc V1.0

EBConverter V1.0 ™

- **Convert your Alllegro brd / dml to IBIS EBD model**

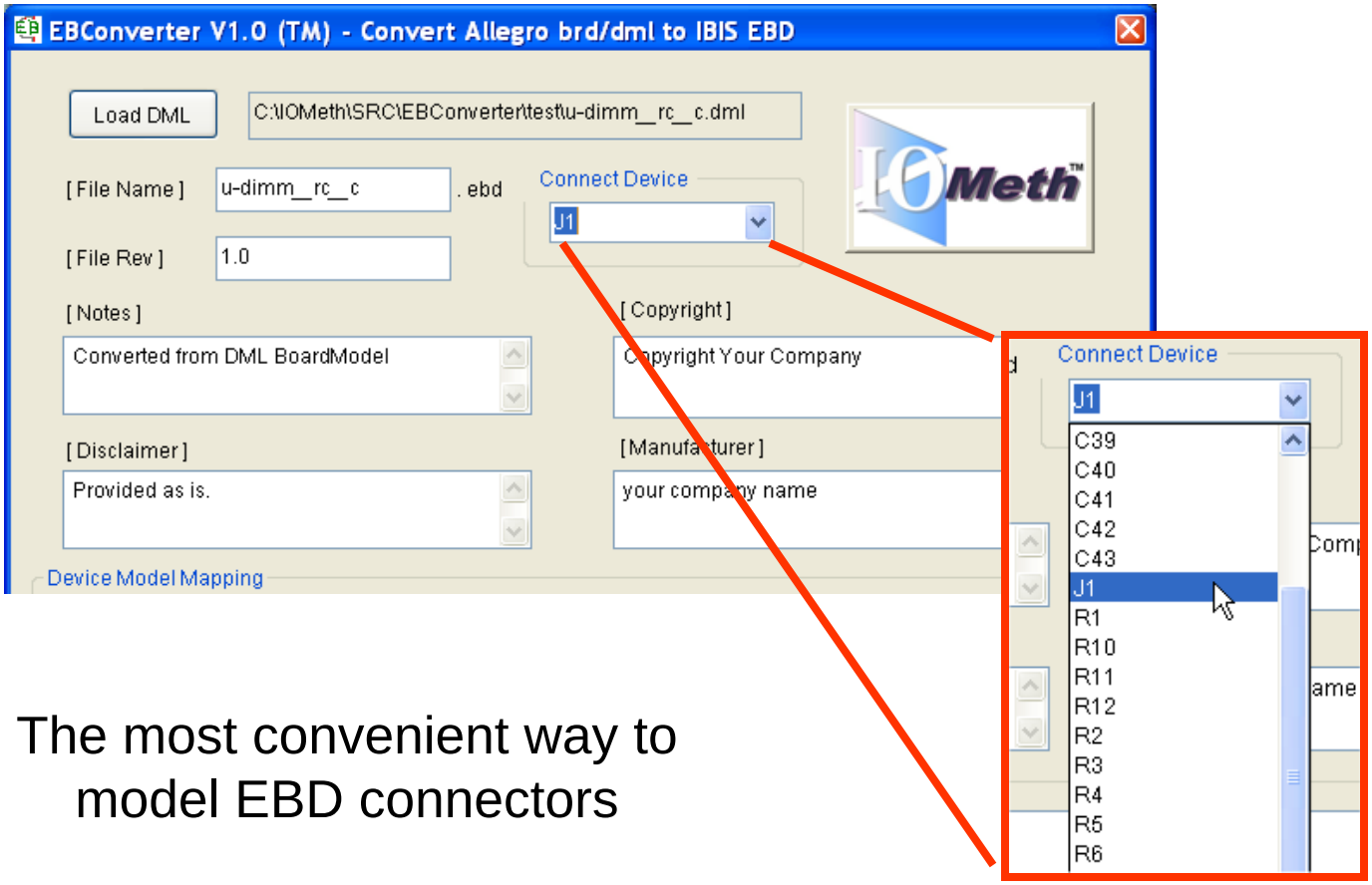




EBConverter V1.0™

- The most accurate IBIS EBD converter on the Market
  - Flexible Connect Device (Connector) selection
  - Complete Connector Pin list
  - Automatic serial/parallel terminator handling for complete extended netlist
  - Automatic embedded terminations in [Path Description] and IBIS Terminator model generations
  - Keep all the data name (Net, RefDes, etc.) as the same as original board
  - Remain DML boardmodel segment names as comment for easy verification

Flexible Connect Device (Connector) Selection



The most convenient way to model EBD connectors

Complete Connector Pin list

```
|
[Number Of Pins]   184
|
[Pin List] signal_name
| J1.1
1     POWER
| J1.2
2     DQ0
| J1.3
3     GND
| J1.4
4     DQ1
| J1.5
5     DQS0
| J1.6
6     DQ2
| J1.7
7     POWER
| J1.8
8     DQ3
| J1.9
9     NC
| J1.10
10    NC
| J1.11
11    GND
| J1.12
12    DQ8
| J1.13
13    DQ9
| J1.14
14    DQS1
| J1.15
15    POWER
```

```
| J1.173
173     NC
| J1.174
174     DQ60
| J1.175
175     DQ61
| J1.176
176     GND
| J1.177
177     DM7
| J1.178
178     DQ62
| J1.179
179     DQ63
| J1.180
180     POWER
| J1.181
181     SA0
| J1.182
182     SA1
| J1.183
183     SA2
| J1.184
184     VDDSPD
```

Produced by another tool

```
|
[Number Of Pins]   172
|
[Pin List]  signal_name
1           POWER
2           DQ0
3           GND
4           DQ1
5           DQS0
6           DQ2
7           POWER
8           DQ3
11          GND
12          DQ8
13          DQ9
14          DQS1
15          POWER
16          CK1
17          CK1#
18          GND
19          DQ10
20          DQ11
21          CKE0
22          POWER
23          DQ16
24          DQ17
25          DQS2
```

Wrong Pin Mapping with missing pins !!!

Robust Terminator Handling

```
[Path Description] DQ0
| J1.2
Pin 2
| R@@X2130Yn370L1_@@J1.2
| ignored for
|Len=0 L=0.000
| XNTL_XSTLX23
Len=0.00382234
| R@@X2350Y970L1_@@RN1.1
| ignored for Spice simulato
|Len=0 L=0.0000e+000 C=0.   e+000 R=1.0000e-006/
| RN1.1 -> RN1.8 R=22
Len=0  R=22/
| Net: DQ0A
| R@@X2350Y1370L1_@@RN1.8
| ignored for Spice simulators
|Len=0 L=0.0000e+000 C=0.0000e+000 R=1.0000e-006/
| XNTL_XSTLX2350Y1370L1X4040Y5321L1
Len=0.0145933 L=3.6466e-007 C=8.8655e-011 R=4.5129e+000/
| R@@X4040Y5321L1_@@U1.54
| ignored for Spice simulators
|Len=0 L=0.0000e+000 C=0.0000e+000 R=1.0000e-006/
Node U1.54
```

Embedded termination for extended netlist

```
|----------
[Component]     2PIN_2GR100K
[Manufacturer] Created by EBConverter

[Package]
|                          typ           min           max
R_pkg                      0             NA            NA
L_pkg                      0             NA            NA
C_pkg                      0             NA            NA
|

[Pin]  signal_name      model_name
1      signal       NC
2      signal      term_p0_g0_rp_rg0
[Series Pin Mapping]    pin_2          model_name
1                        2             series_r100K_c
```

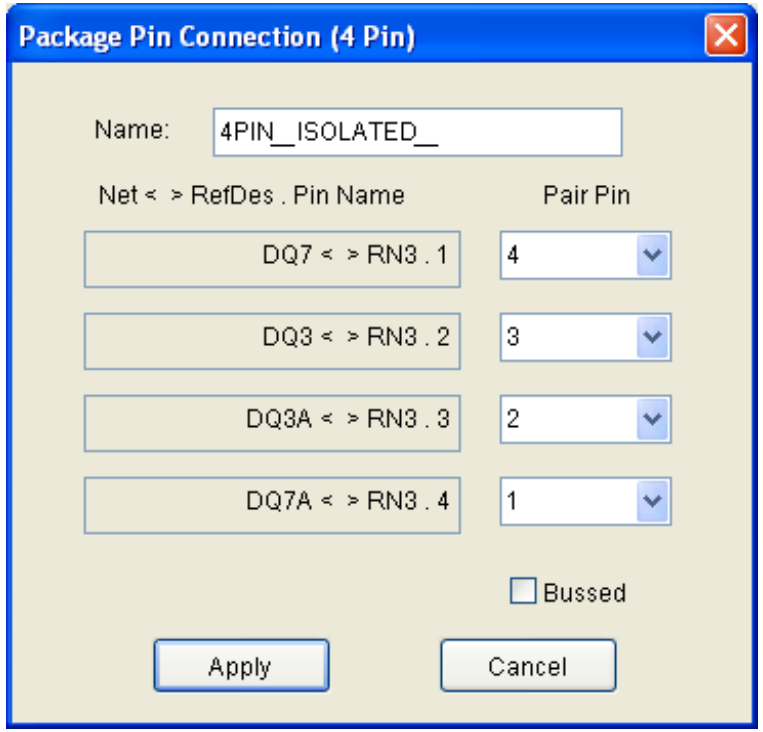
```
[Pin]
1      signal       NC
2      signal      term_p0_g0_rp_rg0
[Series Pin Mapping]    pin_2          model_name
1                        2             series_r0_c
```

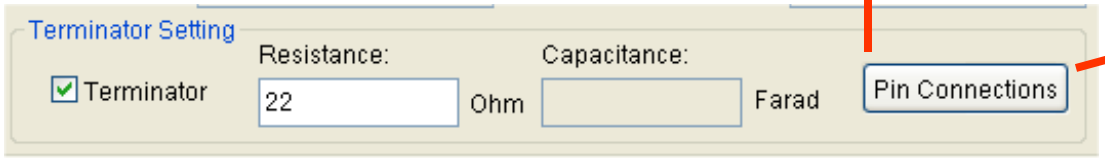
```
[Model]  term_p0_g0_rp_rg0
Model_type  Terminator
                                                    min           max
C_comp                     0                        NA            NA
[Pullup Reference]         0                        NA            NA
[Pulldown Reference]       0                        NA            NA
[POWER Clamp Reference]    0                        NA            NA
[GND Clamp Reference]      0                        NA            NA

| variable       typ           min           max
[Rgnd]           0             NA            NA



[Model]  series_r100K_c
Model_type  Series

|                          typ           min           max
C_comp                     0             NA            NA
[Pullup Reference]         0             NA            NA
[Pulldown Reference]       0             NA            NA
[POWER Clamp Reference]    0             NA            NA
[GND Clamp Reference]      0             NA            NA

| variable       typ           min           max
[R Series]       100K          NA            NA
```

Auto-generation for IBIS Terminator / Series models

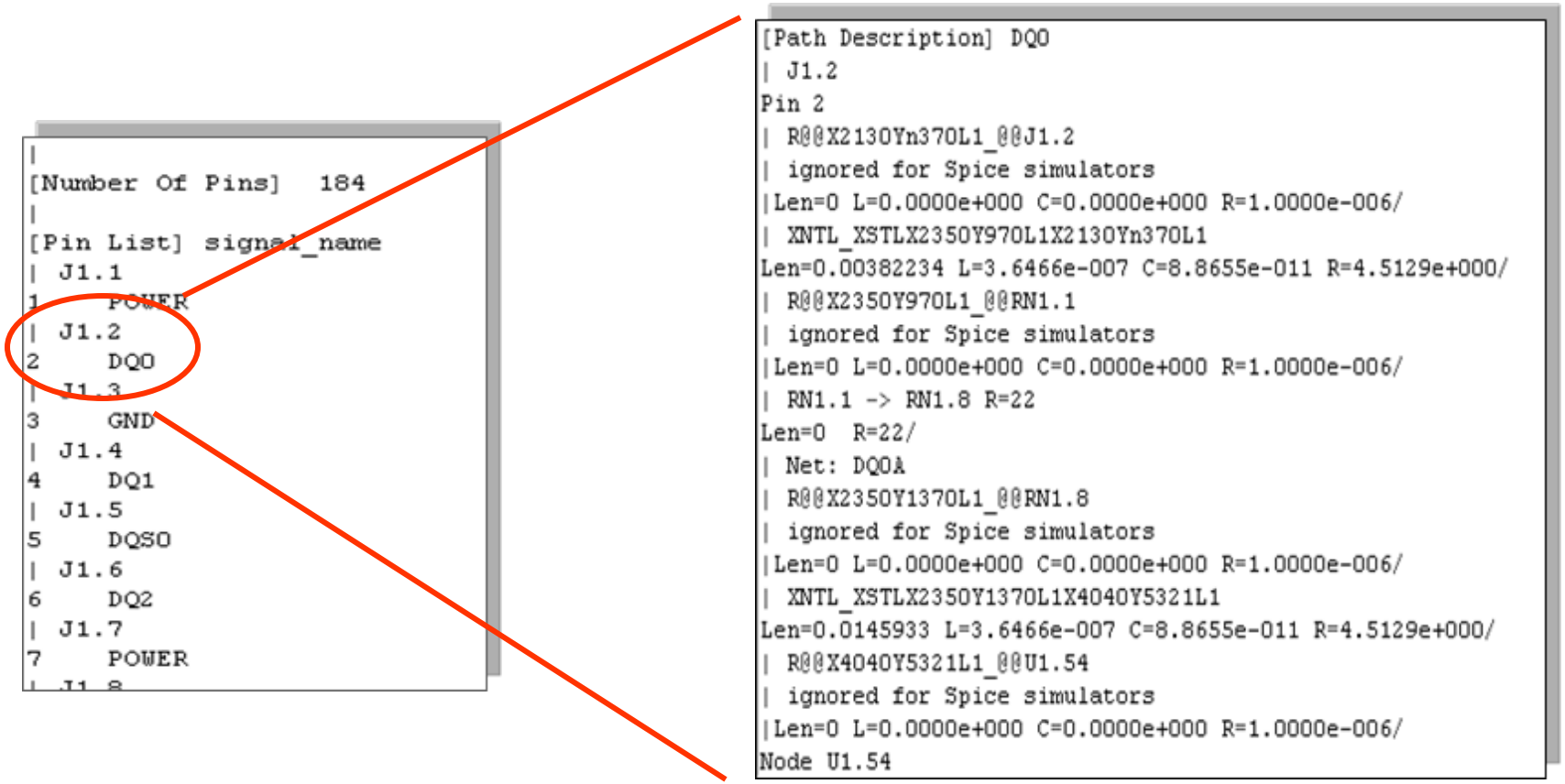
Easy Terminator Work Wizard

- Detect Net connections
- Handles Isolated and Bussed type resistor packs
- Automatic embedding solutions for extended nets



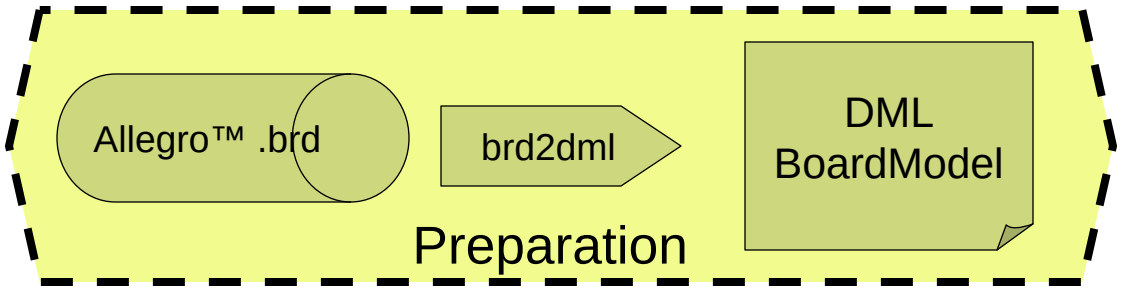


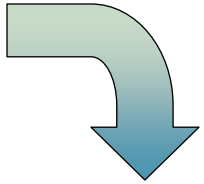
Informational comments/notes

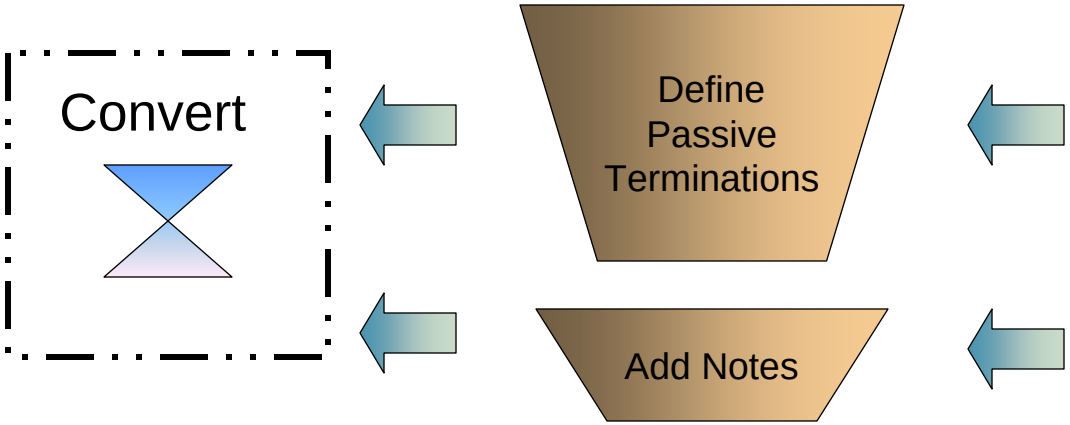


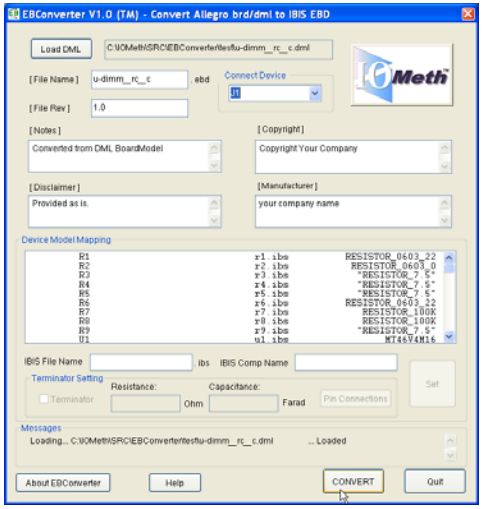
Keep the information as the original board
Remain the segment info in EBD for easy verification

Process Flow

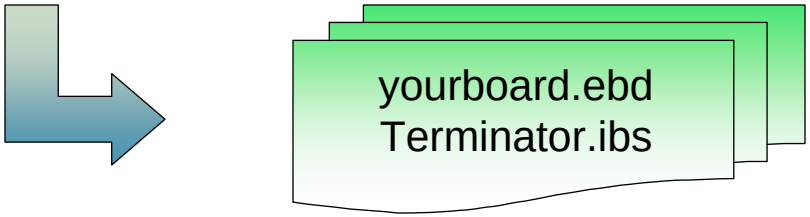








Load in EBC



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Do Quick !

Done Right !