



FAQ / Application Note

Subject : Rework EMB-9655 to support PWM backlight Inverter

FAQ Document No: H10011

Date: 2010/07/26

Model Name. EMB-9655

Rev. A1

Category: General H/W S/W Others, Display

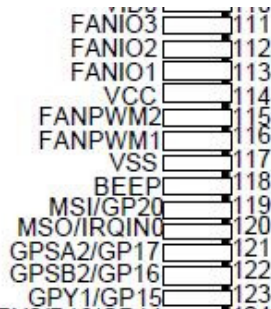
Purpose :

EMB-9655 doesn't support PWM backlight inverter, but we can use FANPWM signal in winbond W83627 SuperIO as backlight PWM control signal.

There is a Winbond 83627HG SuperIO on EMB-9655, and this SuperIO supports two channels FAN speed control signal, one channel is used for EMB-9655, the other one is reserved. Therefore, we can use the FAN speed control signal as PWM backlight control signal.

Both of hardware and software have to modify.

- 1, Software: please contact Avalue Tech support Team
- 2, Hardware: fly a wire from U12 Pin-115 (W83627HG FANPWM2) to JVR Pin-2.



Avalue Technology Inc.

7F, 228, Lian-Cheng Road, Chung Ho City, Taipei, Taiwan R.O.C.

www.avalue.com.tw
sales@avalue.com.tw
Tel:+886-2-82262345
Fax:+886-2-82262777

Avalue Europe
sales.europe@avalue.com.tw
Tel: +45-7025-0310
Fax: +45-4975-5026

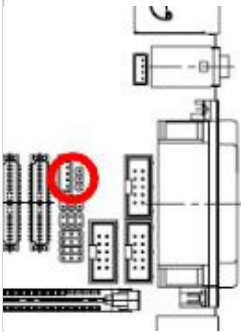
Avalue USA
sales@avalue-usa.com
Tel: +1-732-578-0200
Fax: +1-732-578-0250

BCM Advanced Research
BCMSales@bcmcom.com
Tel: +1-949-470-1888
Fax: +1-949-470-0971

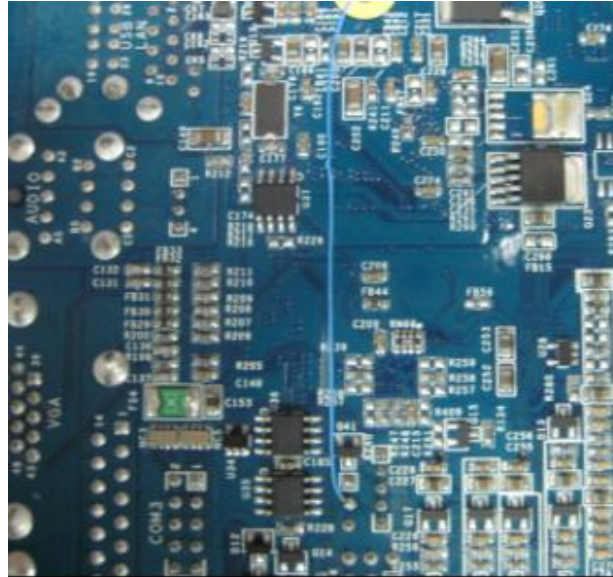
Avalue China
sales.china@avalue.com.cn
Tel: +86-21-5426-3399
Fax: +86-21-6495-0370

JVR1 (as you can see we fly a wire to the rear side of the board because it is easier for fly wire.)

3. After you done the change, please keep JVR1 open.



Signal	PIN
+5V	1
VR	2
GND	3



P.S. this solution can be implemented on all boards with Winboard 83627 superIO and want to support PWM inverter for control brightness via software application

Avalue Technology Inc.

www.avalue.com.tw
 sales@avalue.com.tw
 Tel:+886-2-82262345
 Fax:+886-2-82262777

Avalue Europe
 sales.europe@avalue.com.tw
 Tel: +45-7025-0310
 Fax: +45-4975-5026

Avalue USA
 sales@avalue-usa.com
 Tel: +1-732-578-0200
 Fax: +1-732-578-0250

BCM Advanced Research
 BCMSales@bcmcom.com
 Tel: +1-949-470-1888
 Fax: +1-949-470-0971

Avalue China
 sales.china@avalue.com.cn
 Tel: +86-21-5426-3399
 Fax: +86-21-6495-0370

7F, 228, Lian-Cheng Road, Chung Ho City, Taipei, Taiwan R.O.C.