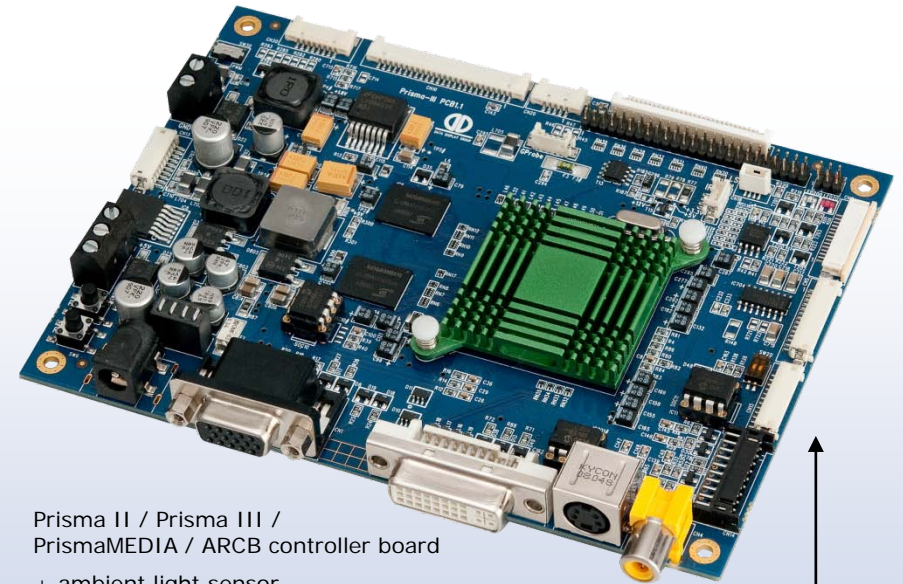


# Ambient Light Sensor

Potential cost savings on energy  
& lifetime enhancement of backlight  
for Prisma & ARCB Boards

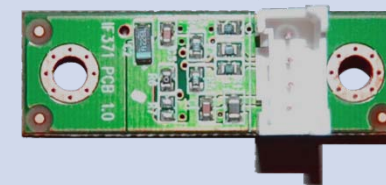


# Start saving on energy costs today by ordering your Prisma or ARCB controller board with our all new **Ambient Light Sensor!**



Prisma II / Prisma III /  
PrismaMEDIA / ARCB controller board  
+ ambient light sensor  
+ software (algorithm implemented in board firmware)

Depending on the local area you spent more than 50% of each year in suboptimal ambient lighting conditions (e.g. darkness, overcast or rainy weather).



connected via cable



## How it works

- The **Ambient Light Sensor** will automatically adjust the backlight brightness (CCFL as well as LED) to the luminance for a perfect picture in relation to the environmental conditions.
  - An intelligent algorithm guarantees a smooth and continuous regulation of the display's backlight, so you will not notice the brightness adjustment.
  - The relation of panel brightness and ambient lighting conditions remain the same.
- ⇒ Of course this algorithm is customizable for projects!

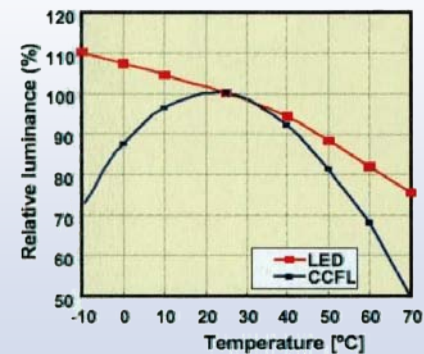


## Your benefits

- Less power consumption is “green”

- Reduced energy costs

- Lifetime enhancement of backlight (low total cost of ownership)



- A consistently ideal luminance setting is much more pleasing to the human eye (no dazzle!)



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# Potential cost savings

(Prisma ALS & intelligent software algorithm used in conjunction with Samsung DID panels)

Samsung DID panel	Average power consumption p.a. (kwh)			Average energy costs p.a. (0.15 EUR per kwh)		cost savings p.a. with Prisma ALS, assuming 50% non-sunshine conditions (clouds, darkness, etc.)	Price for adding ALS to Prisma boards	Approximately payback period
	with ALS (1)	without ALS (2)	highest possible (3)	with ALS	without ALS			
LT1320AA02	452	721	902	67.80 €	108.15 €	<b>40.35 €</b>	<b>20.00 €</b>	6 months
LT1400HA01 / -HA03	1000	1490	2234	150.00 €	223.50 €	<b>73.50 €</b>	<b>40.00 €</b>	6 months
LT1460HA01 / -HA03 (black bezel)	1310	2100	2596	196.50 €	315.00 €	<b>118.50 €</b>	<b>60.00 €</b>	6 months
LT1460AA03-001 (bb, 1500cd)	1730	2660	3857	259.50 €	399.00 €	<b>139.50 €</b>	<b>75.00 €</b>	6 months
LT1520HB01-001	1550	2640	3315	232.50 €	396.00 €	<b>163.50 €</b>	<b>85.00 €</b>	6 months
LT1700HD01-001	4610	5860	9631	691.20 €	879.00 €	<b>187.50 €</b>	<b>95.00 €</b>	6 months
LT1700HD02 (2000cd)	10248	12947	15155	1,537.20 €	1,942.05 €	<b>404.85 €</b>	<b>200.00 €</b>	6 months
LT1820HT-L01	5210	7410	9644	781.50 €	1,111.50 €	<b>330.00 €</b>	<b>170.00 €</b>	6 months

- 1) avg. consumption p.a.
- 2) typ. values measured in lab
- 3) according to max. values of Samsung spec.

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