iPod Nano 6 Display Breakout - Bug #602

boost converter won't boost high enough

03/18/2015 08:19 PM - Andrew Kohlsmith

Status:	New	**Start date:**	03/18/2015
Priority:	Normal	**Due date:**	
Assignee:	Andrew Kohlsmith	**% Done:**	0%
Category:		**Estimated time:**	0:00 hour
Target version:			

Description

The TLV61220 has a maximum output voltage of 5V. We need about 16V.

There aren't many SOT23 boost regulators which will go that high, but there are a fair number of LED drivers. Guess what we're doing with this supply?

Potential Candidates:

- TPS61165: $3 in singles
- FAN5345: $1.50
- AP5725: $0.84
- AP3032: $0.77
- AP3602: $0.66, not dimmable
- AHK1421: $0.64, goofy serial protocol to dim

Generally speaking the cheaper you get the goofier you get. We don't need much current so the cheapies will work fine. They all seem to share more or less compatible pinouts as well.

Subtasks:

Task # 603: use an LED driver for the backlight	**New**

History

#1 - 03/18/2015 08:21 PM - Andrew Kohlsmith

- Assignee set to Andrew Kohlsmith