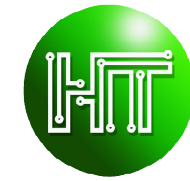


Interior ambient light

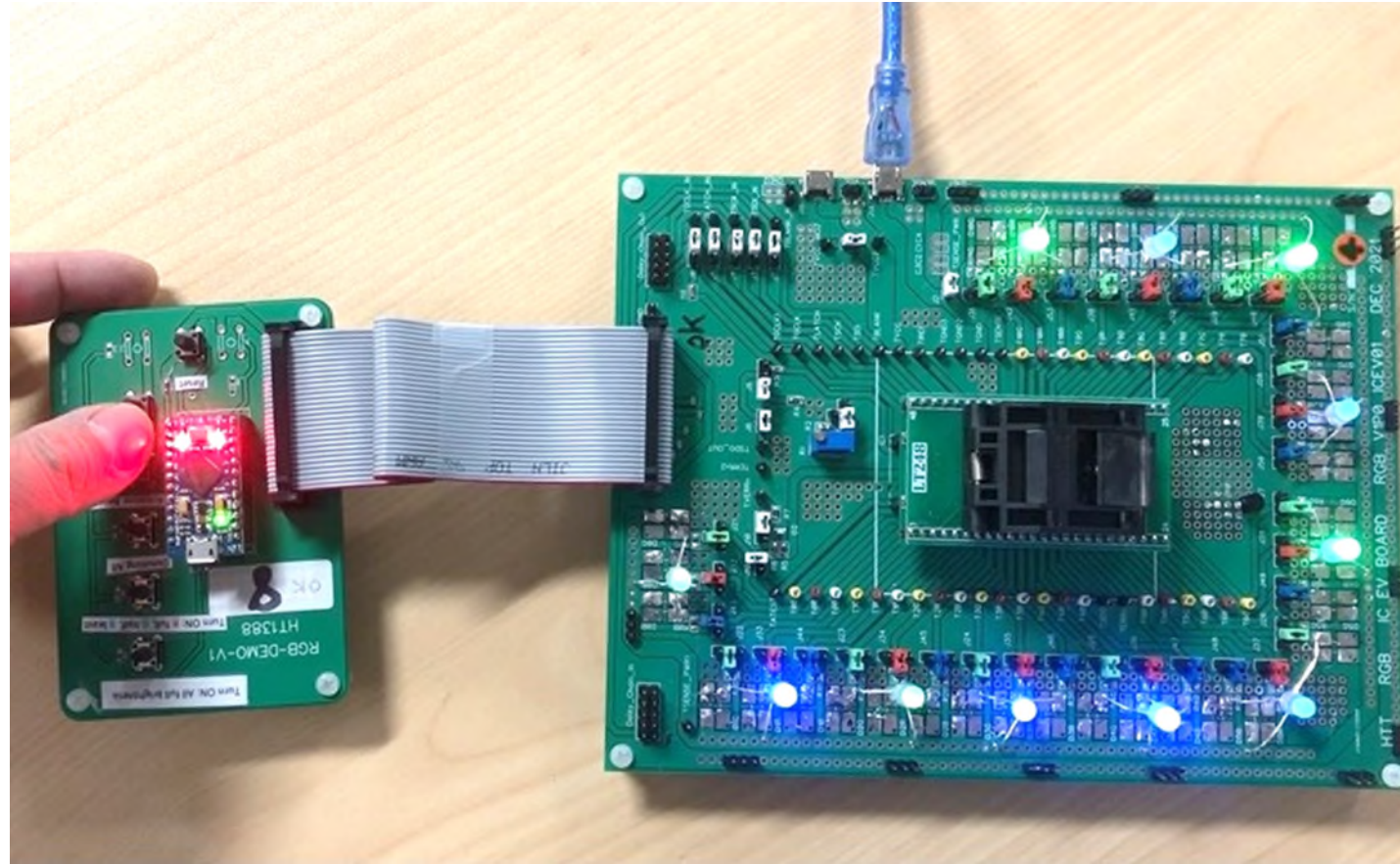
HTT IC used : HT1388 and HT6329

# Interior ambient light application

[To content](#)



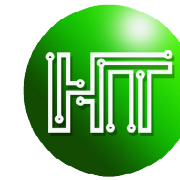
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# Interior ambient light application

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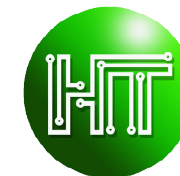
## Interior ambient lighting demo specifications

	Power Management	Lighting Control
HTT IC part	HT6329	HT1388
Input voltage	DC 12V - 24V	DC 3V - 5V
Output	Dual channel	33 channels
Output voltage	5V - 12V	5V
Output current	3A per channel	The maximum output current per channel is 30-40mA. For higher output currents, a maximum of 60mA can be achieved via combining 2 adjacent channels.
Demo board	HT6329+HT1388 basic driver module , connect to 11 RGB mixed colour LEDs.	
Hardware features	1) One MCU can drive several HT1388, each HTT chip can drive 33 channels, and each channel can independently control LED on/off and PWM dimming. 2) One HT6329 can connect up to 3 or more HT1388 demo boards to drive more LEDs.	
Software features	1) Control the brightness, color and flickering beat of the light string through the MCU firmware. 2) FFT music display function. 3) IoT Bluetooth remote control function. 4) User programmable.	

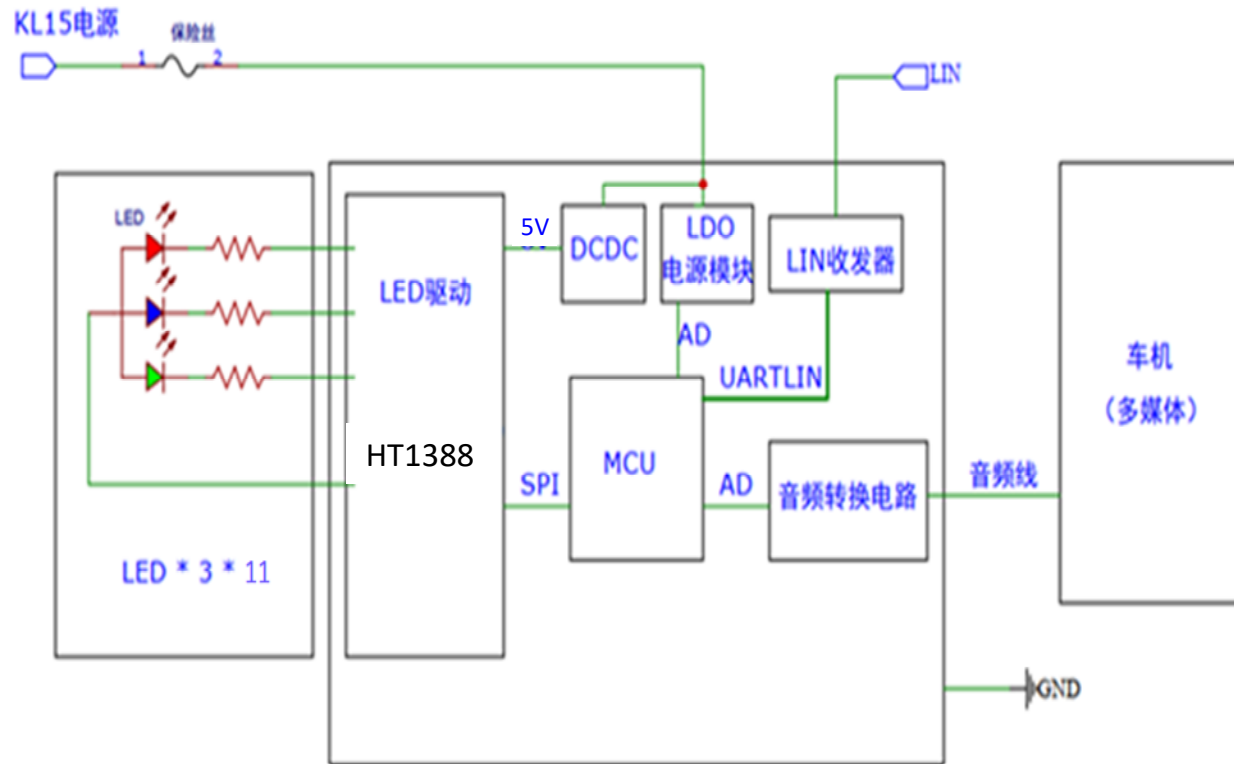
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# HT1388 11-way ambient light vehicle regulation system solution

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Parts	Primary	remark
MCU	Arduino	ESP32 can be used instead of incorporate Wi-Fi / BLE function.
LDO	BD450M2	
LED driver	HT1388	1) Less change in MCU firmware. 2) Existing system scenarios can be supported.
DCDC	HT6329	LED driver requires 5V power supply, overall LED current is large. Considering the heating of LDO is serious, using DCDC is a better solution.
Audio conversion	MAX4466	Input from the horn wire or directly output from the vehicle
others		Resistors, capacitors, PCB boards, terminals, etc

1. Support 33 ambient lights, each lamp has RGB LED and current limiting protection resistor.
2. A 8 bit MCU is needed to provide SPI. The MCU controls dimming via LED drivers. The LED driver supplies power to the peripheral LEDs, with a maximum voltage of 5V.
3. If the music rhythm function is not done, the audio conversion circuit module can be canceled.
4. LED driver chip comes with fault detection function

## Demo Video

Music Rhythm function <https://www.youtube.com/watch?v=TViP8TzBgAo>

Wi-Fi / BLE function <https://www.youtube.com/watch?v=PuMBH-1k-pU>

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