



Shown Above for only 16 LEDs, Duplicate like that for as many as you want, upto 32 74HCT373 need to be used. then you have 32 * 8 outputs.

other opto couplers MCT2E, 4N25, 4N28, 4N32

use it as it is to drive 256 LEDs, Relays or Outputs
as a 128*128 matrix it can drive 16,384 LEDs dot matrix display in Multiplexed mode..

connect to printer port with a good quality shielded cable.

use 74HCT40XX chips in place of CD40XX for only 5V and high speed designs.
put 104 CD cap for all ICs from positive to negative close to IC, even if omitted in circuit, for opamps on dual supply two caps.
unused inputs of logic and opamps pull up or down to avoid oscillations and noise. connect supply of all chips if not mentioned.
"analog ground" and "digital ground" must be linked at power supply only, avoid loops, let grounds radiate from a ground plane.
use MFR 1% for all Resistors, 33E means 33 ohms, 22K means 22 kilo ohms, 1M is 1 megohm. 10T tp means ten turn trimpot.
'474 CD' is 47 with 4 zeros pF, 470000 pF, 470 nF, 0.47uF. "pl" is plastic, low leakage multilayer.



<http://www.delabs.net/>
<http://www.electronics-circuits.com/>
<http://www.delabs-circuits.com/>
<http://www.dapj.com/>

delabs circuits and technologies		
Title Drive 256 Outputs with Printer Port Display System		
Size B	Document Number del20021	Rev 2
Date:	Wednesday, March 21, 2007	Sheet 1 of 1