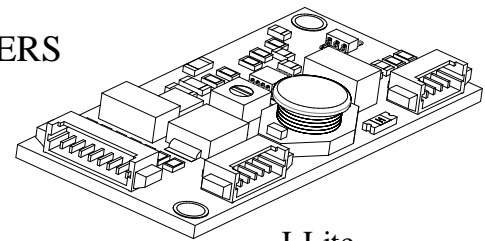


APPLICATION NOTE

02/02/12

DRIVING NEC PANELS WITH ACI I-LITE LED DRIVERS



I-Lite

1. Identify the NEC Panel P/N to be driven, from Table 1 below.
2. Use the ACI I-Lite LED Driver specified in Table 1.
3. Using a small flat-head screw driver, set the position of the S1 Switch on the LED Driver, per the setting shown in Table 1 (Refer to Figure 1 for illustration of S1 Switch positions).
4. Connect the LED Driver to the Display, using the output cable assembly specified in Table 1.
5. Use Input Cable Assembly P/N 27-R0031, to interface with CON1 of LED Driver.

NEC Panel P/N	Size	# of Channels	Vf (V) Typ. (Max)	Current per Channel (mA) Typ.	ACI I-Lite LED Driver P/N	Switch Setting (S1)	Output Cable Assembly (to connect driver to display)
5.7 VGA							
NL6448C18-01	5.7	2	29.7 (34.2)	25	ACI-A040021-1966	D	27-R0076
NL6448BC18-01F	5.7	4	29.7 (34.2)	25	ACI-A040033-1960	C	27-R0082
NL6448BC18-03F	5.7	4	29.7 (34.2)	25	ACI-A040033-1960	C	27-R0082
NL6448BC18-06F	5.7	4	29.7 (34.2)	25	ACI-A040033-1960	C	27-R0082
6.5 VGA							
NL6448BC20-21C	6.5	6	26.8 (31.5)	10	ACI-A040033-1960	D	27-A0032
NL6448BC20-21D	6.5	6	26.8 (31.5)	10	ACI-A040033-1960	D	27-A0032
NL6448BC20-30C	6.5	4	15.0 (18.8)	50	ACI-A040033-1962	A	27-R0077
NL6448BC20-30F	6.5	4	15.0 (18.8)	50	ACI-A040033-1962	A	27-R0077
6.5 XGA							
NL10276BC13-01C	6.5	6	27.9 (31.5)	15	ACI-A040021-1966	B	27-A0032
NL10276BC13-01	6.5	6	27.9 (31.5)	15	ACI-A040021-1966	B	27-A0032
7.0 WVGA							
NL8048BC19-02	7.0	3	29.7 (34.2)	25	ACI-A040021-1966	C	27-R0038
NL8048BC19-02C	7.0	3	29.7 (34.2)	25	ACI-A040021-1966	C	27-R0038
NL8048BC19-03	7.0	3	29.7 (34.2)	25	ACI-A040021-1966	C	27-R0038
NL8048BC19-11D	7.0	3	19.8	50	ACI-A040033-1960	B	27-R0077

Table 1. 6 Driving NEC Panels (Part 1 of 3)

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APPLICATION NOTE

02/02/12

DRIVING NEC PANELS WITH ACI I-LITE LED DRIVERS

NEC Panel P/N	Size	# of Channels	Vf (V) Typ. (Max)	Current per Channel (mA) Typ.	ACI I-Lite LED Driver P/N	Switch Setting (S1)	Output Cable Assembly (to connect driver to display)
8.4 VGA							
NL6448BC26-08DL	8.4	2	23.1 (26.6)	50	ACI-A040033-1960	C	27-A0076
NL6448BC26-15-L	8.4	4	33.0	25	ACI-A040033-1960	C	27-A0077
NL6448BC26-15C-L	8.4	4	33.0	25	ACI-A040033-1960	C	27-A0077
NL6448BC26-20F	8.4	4	29.7 (34.2)	25	ACI-A040033-1960	C	27-A0077
NL6448BC26-22F	8.4	4	29.7 (34.2)	25	ACI-A040033-1960	C	27-A0077
NL6448BC26-26	8.4	2	23.1 (26.6)	50	ACI-A040033-1960	C	27-A0076
NL6448BC26-27C	8.4	4	23.1 (26.6)	50	ACI-A040033-1960	A	27-A0077
8.4 SVGA							
NL8060BC21-03-L	8.4	4	33.0	25	ACI-A040033-1960	C	27-A0077
NL8060BC21-10	8.4	2	23.1	50	ACI-A040033-1960	C	27-A0076
NL8060BC21-11	8.4	3	16.5 (26.6)	50	ACI-A040033-1962	B	27-A0077
NL8060BC21-11C	8.4	4	23.1 (26.6)	50	ACI-A040033-1960	A	27-A0077
NL8060BC21-11D	8.4	3	16.5 (26.6)	50	ACI-A040033-1962	B	27-A0077
NL8060BC21-11F	8.4	4	23.1 (26.6)	50	ACI-A040033-1960	A	27-A0077
8.9 WSVGA							
NL10260BC19-01D	8.9	4	28.4 (31.5)	15	ACI-A040033-1960	D	See Note 1
8.9 WXGA							
NL12876BC15-02	8.9	3	35.2 (38.5)	20	ACI-A040033-1960	D	See Note 1
9.0 WVGA							
NL8048BC24-06	9.0	3	28.8	40	ACI-A040021-1966	A	27-R0077
NL8048BC24-09	9.0	3	21.0 (26.2)	50	ACI-A040033-1960	B	27-R0077
NL8048BC24-09D	9.0	3	21.0 (26.2)	50	ACI-A040033-1960	B	27-R0077
10.4 VGA							
NL6448BC33-63D-L	10.4	5	29.7	25	ACI-A040021-1966	A	27-A0049
NL6448BC33-64-L	10.4	5	29.7	25	ACI-A040021-1966	A	27-A0049
NL6448BC33-70	10.4	3	18.0 (22.6)	50	ACI-A040033-1961	B	27-R0084
NL6448BC33-70C	10.4	4	27.0	50	ACI-A040033-1961	A	27-R0084
NL6448BC33-70D	10.4	3	18.0 (22.6)	50	ACI-A040033-1961	B	27-R0084
NL6448BC33-70F	10.4	4	27.0 (33.9)	50	ACI-A040033-1961	A	27-R0084
NL6448BC33-71D	10.4	2	29.7 (34.2)	50	ACI-A040033-1960	C	27-R0076
NL6448BC33-74-L	10.4	2	29.7 (34.2)	50	ACI-A040033-1960	C	27-R0076

Table 1. Driving NEC Panels (Part 2 of 3)

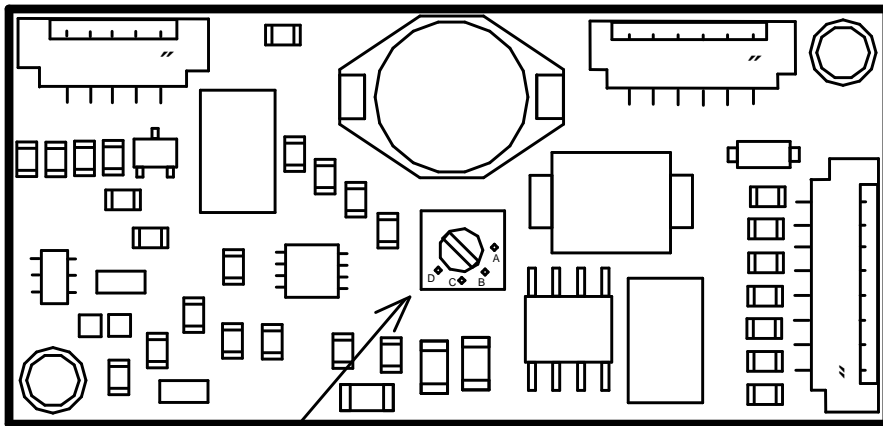
DRIVING NEC PANELS WITH ACI I-LITE LED DRIVERS

NEC Panel P/N	Size	# of Channels	Vf (V) Typ. (Max)	Current per Channel (mA) Typ.	ACI I-Lite LED Driver P/N	Switch Setting (S1)	Output Cable Assembly (to connect driver to display)
10.4 SVGA							
NL8060BC26-35	10.4	3	18.0 (22.6)	50	ACI-A040033-1961	B	27-R0084
NL8060BC26-35C	10.4	4	27.0 (33.9)	50	ACI-A040033-1961	A	27-R0084
NL8060BC26-35D	10.4	3	18.0 (22.6)	50	ACI-A040033-1961	B	27-R0084
NL8060BC26-35F	10.4	4	27.0 (33.9)	50	ACI-A040033-1961	A	27-R0084
10.4 XGA							
NL10276BC20-10	10.4	5	23.3 (28.8)	40	ACI-A040033-1960	A	27-A0049
NL10276BC20-12	10.4	5	27.9 (31.5)	15	ACI-A040021-1966	C	27-A0049
NL10276BC20-18	10.4	2	27.8 (34.8)	60	ACI-A040021-1966	A	27-A0076
NL10276BC20-18A	10.4	2	27.8 (34.8)	60	ACI-A040021-1966	A	27-A0076
NL10276BC20-18D	10.4	2	27.8 (34.8)	60	ACI-A040021-1966	A	27-A0076
12.1 SVGA							
NL8060BC31-41D-L	12.1	5	33.0	25	ACI-A040021-1966	A	27-A0049
NL8060BC31-47	12.1	3	24.0 (30.6)	50	ACI-A040033-1960	B	27-R0077
NL8060BC31-47D	12.1	3	24.0 (30.6)	50	ACI-A040033-1960	B	27-R0077
12.1 XGA							
NL10276BC24-14	12.1	5	28.8 (31.5)	20	ACI-A040033-1960	C	See Note 1
NL10276BC24-19D	12.1	5	28.8 (31.5)	20	ACI-A040033-1960	C	See Note 1
NL10276BC24-21F	12.1	5	24.0 (30.1)	50	ACI-A036050-1997	B	27-A0049
12.1 WXGA							
NL12880BC20-05	12.1	4	24.0 (29.5)	50	ACI-A040033-1960	A	27-R0077
15.0 XGA							
NL10276BC30-34D	15.0	6	27.0 (33.2)	50	ACI-A036050-1981	A	27-R0090

Table 1. Driving NEC Panels (Part 3 of 3)

Note 1: The display backlight connection is integrated into the display video connector, therefore, the LED Driver output cable assembly will be dependent on the video card connector. A generic LED driver output cable assembly (ACI P/N 27-A0027) is available with eight 12-inch flying leads, in order to splice the output of the LED driver to the display video/backlight cable assembly. For more information, please contact Applied Concepts, Inc.

DRIVING NEC PANELS WITH ACI I-LITE LED DRIVERS



4 POSITION MAX INTENSITY
SELECT SWITCH (S1)

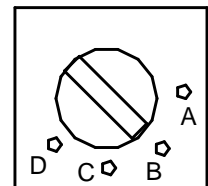


Figure 1. Illustration of S1 Switch Positions

DRIVING NEC PANELS WITH ACI I-LITE LED DRIVERS

1. If Enable (PIN 3) is not being used, it can be left electrically floating.
2. If no dimming is required, connect Intensity CNTL (PIN 4) to +3.3V REF OUT (PIN 5).
3. If dimming is required, the +3.3V REF OUT (PIN 5) can be used for high-side of Intensity Control Potentiometer. A 10K Ohm Potentiometer is recommended.

Connecting 10K Ohm Potentiometer used for Dimming

