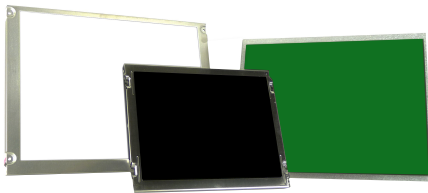




2015 Display Roadmap

Hi-Bright (HB) & NVIS Solutions





ACI's team of Engineers are dedicated to developing niche power conversion solutions for highly specialized applications across the Military, Marine, Aviation, Medical, Industrial, and Commercial markets.

Company Overview

Applied Concepts (ACI) was formed in 1998 to develop specialty power conversion systems (inverters) primarily for CCFL & Backlighting applications. Since then, our product offerings have expanded to include LED Drivers, Rails, and Modified Displays (High-Bright & NVIS).

- ISO 9001:2011 Certified
- We design and manufacture specialty power conversion systems for a wide range of applications spanning the Military, Marine, Aviation, Medical, and Industrial/Commercial markets.
- Our team of dedicated engineers that work closely with our customers to design new, innovative products with an emphasis on performance & reliability.
- ACI's reputation has enabled us to develop strong partnerships with a variety of Distributors and other Value-added Resellers to power your stock panels and HB or NVIS solutions.

 **HB Displays** **Features & Benefits**

ACI is recognized industry-wide as a leading manufacturer of Sunlight-Readable HB Displays & Kits promising superior performance & reliability:

- Ruggedized for Harsh Environments (Military, etc.)
- Max luminance, uniformity, & half-life (75,000 hrs)
- Onboard Micro-Controller allows:
 - Ultra-wide range dimming (5,000:1)
 - Variety of Dimming Curves:
 - Linear, Logarithmic, Digital-View, etc.
 - Adjustable Brightness range
 - Capable of accepting a variety of interfaces
- Ambient Light Sensor (ALS) add-on available
- Available as Modified Displays or LED Rail Kits
 - Modified Displays built from Customer-Consigned or ACI-Supplied Programs

Features & Benefits

All of our HB/NVIS Displays are Full-Up Custom, Dual-Mode Designs offering the very best Day & Night Performance:

- Dual-Mode capability with Single LED Driver & Rail
- Fully-Integrated NVIS Design, No Filters Required
- Satisfies MIL STD 3009 Class A, B, & C Compliance
 - Additionally, Low EMI Circuit/Driver topology
- Plus all of the features available in our HB Displays
 - Ruggedized Design for Harsh Environments
 - Onboard Micro-Controller (Custom Dimming, etc.)
 - Accepting various Interfaces, including ALS
- Only Modified Displays available (no Kits), built from Customer-Consented or ACI-Supplied Programs



HB/NVIS Displays



I-Drive LED Drivers

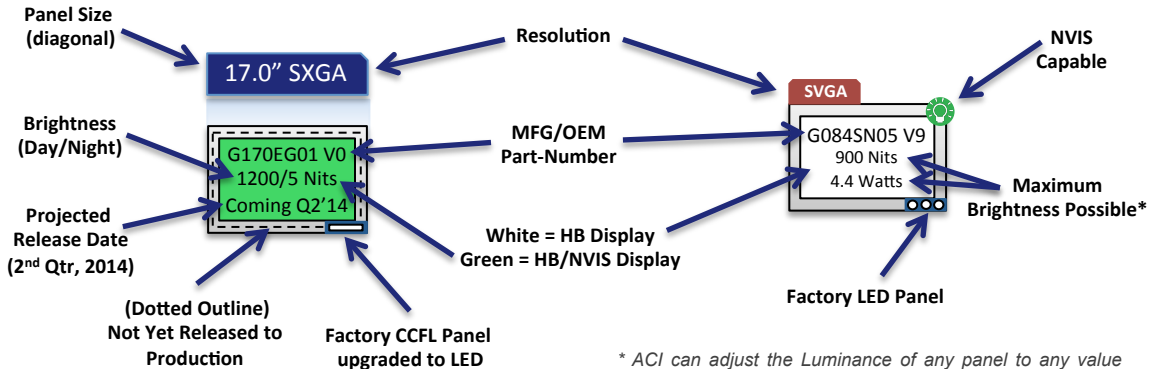


Features & Benefits

Our drivers power everything we do here at ACI, from supporting factory panels to lighting our HB and NVIS Modifications Our I-Drive series of LED Drivers rank among the best in the industry for performance and reliability.

- Each driver has an onboard Micro-Controller providing:
 - Ultra-wide range dimming (5,000:1)
 - Variety of Dimming Curves:
 - Linear, Logarithmic, Digital-View, etc.
 - Adjustable Brightness range
 - Capable of accepting a variety of interfaces
- Satisfies the RE-101 compliance for reduced EMI
- Our team of experienced Engineers deliver:
 - Quick-turn customizations & support
 - Tuning of specific input voltage ranges
- Ruggedized for harsh environments (military, marine, aviation, etc.) with extended MTBF
- Drop-In form factors available upon request

Road Map Key



** ACI can adjust the Luminance of any panel to any value below the maximum luminance based on customer requests.*

High-Bright Displays (5.7" - 12.1")

Size	OEM	P/N	Resolution	Factory BL Type	Luminance (Nits)	Power (Watts)	Available	Q1'15	Q2'15	Q3'15
5.7"	TIANMA	TM057KDH02	QVGA - 320 x 240	LED	2200	5.6	<input checked="" type="checkbox"/>	-	-	-
6.5"	NLT	NL6448BC20-35	VGA - 640 x 480	LED	1250	3.1	<input checked="" type="checkbox"/>	-	-	-
7.0"	INNOLUX	G070Y2-L01	WVGA - 480 x 800	LED	1000	3.2	<input checked="" type="checkbox"/>	-	-	-
8.4"	AUO	G0845N05 V9	SVGA - 800 x 600	LED	900	4.4	<input checked="" type="checkbox"/>	-	-	-
	NLT	NL10276BC16-06	XGA - 1024 x 768	LED	1500	TBD	-	<input checked="" type="checkbox"/>	-	-
	NLT	NL8060BC21-06	SVGA - 800 X 600	LED	1200	3.22	<input checked="" type="checkbox"/>	-	-	-
10.4"	INNOLUX	G104X1-L04	XGA - 1024 x 768	LED	1000	11.7	<input checked="" type="checkbox"/>	-	-	-
	LG	LB104S04-TL01	SVGA - 800 x 600	LED	1000	7.8	<input checked="" type="checkbox"/>	-	-	-
	NLT	NL10276BC20-18	XGA - 1024 x 768	LED	1250	8	<input checked="" type="checkbox"/>	-	-	-
	SHARP	LQ104V1DG81	VGA - 640 x 480	LED	1000	11.7	<input checked="" type="checkbox"/>	-	-	-
12.1"	AUO	G121XN01 V0	XGA - 1024 x 768	LED	1200	9.9	<input checked="" type="checkbox"/>	-	-	-
	INNOLUX	G121X1-L03	XGA - 1024 x 768	LED	1000	9.8	<input checked="" type="checkbox"/>	-	-	-
	INNOLUX	G12111-L01	WXGA - 1280 x 800	LED	1200	19.6	<input checked="" type="checkbox"/>	-	-	-
	NLT	NL10276BC24-13	XGA - 1024 x 768	CCFL	1000	6.4	<input checked="" type="checkbox"/>	-	-	-
	NLT	NL10276BC24-21	XGA - 1024 x 768	LED	1500	11.9	<input checked="" type="checkbox"/>	-	-	-
	NLT	NL8060BC31-47D	SVGA - 800 x 600	LED	1500	9.5	-	<input checked="" type="checkbox"/>	-	-

High-Bright Displays (15.0" – 18.0")

Size	OEM	P/N	Resolution	Factory BL Type	Luminance (Nits)	Power (Watts)	Available	Q1'15	Q2'15	Q3'15
15"	AUO	G150XG01-V3	XGA - 1024 x 768	LED	1500	18.8	<input checked="" type="checkbox"/>	-	-	-
	AUO	G150XG01-V4	XGA - 1024 x 768	LED	1300	26.6	<input checked="" type="checkbox"/>	-	-	-
	INNOLUX	G150XGE-L04	XGA - 1024 x 768	LED	1000	16.2	<input checked="" type="checkbox"/>	-	-	-
	INNOLUX	G150XGE-L05	XGA - 1024 x 768	LED	1000	16.2	<input checked="" type="checkbox"/>	-	-	-
	LG	LB150X02-TL02	XGA - 1024 x 768	CCFL	1500	26.4	<input checked="" type="checkbox"/>	-	-	-
	NLT	NL10276BC30-33D	XGA - 1024 x 768	CCFL	2200	27.7	<input checked="" type="checkbox"/>	-	-	-
	NLT	NL10276BC30-34D	XGA - 1024 x 768	LED	1250	21.4	<input checked="" type="checkbox"/>	-	-	-
	NLT	NLB150XG01L-01	XGA - 1024 x 768	LED	1200	26	<input checked="" type="checkbox"/>	-	-	-
NLT	NL10276BC30-39	XGA - 1024 x 768	LED	950	26.6	<input checked="" type="checkbox"/>	-	-	-	
15.4"	INNOLUX	G154I1-LE1	WXGA - 1280 x 800	LED	1100	28.9	<input checked="" type="checkbox"/>	-	-	-
15.6"	AUO	G156XW01 V1	FHD - 1920 x 1080	LED	700	21.7	<input checked="" type="checkbox"/>	-	-	-
	SHARP	LQ156M1LG21	FHD - 1920 x 1080	LED	1000	21.3	<input checked="" type="checkbox"/>	-	-	-
17"	AUO	G170EG01 V0	SXGA - 1280 x 1024	CCFL	1050	23.8	<input checked="" type="checkbox"/>	-	-	-
	AUO	G170EG01 V1	SXGA - 1280 x 1024	LED	1000	TBD	-	-	-	<input checked="" type="checkbox"/>
	AUO	M170EG01 V5	SXGA - 1280 x 1024	CCFL	900	38.7	<input checked="" type="checkbox"/>	-	-	-
17.3"	AUO	G173HW01 V0	FHD - 1920 x 1080	LED	1000	27.4	<input checked="" type="checkbox"/>	-	-	-
18"	SHARP	LG181E1LW31	SXGA - 1280 x 1024	CCFL	900	86.3	<input checked="" type="checkbox"/>	-	-	-

High-Bright Displays (19.0" - 32.0")

Size	OEM	P/N	Resolution	Factory BL Type	Luminance (Nits)	Power (Watts)	Available	Q1'15	Q2 '15	Q3 '15
19"	AUO	G190EG01 V0	SXGA - 1280 x 1024	CCFL	1200	25.4	<input checked="" type="checkbox"/>	-	-	-
	AUO	G190EG01 V1	SXGA - 1280 x 1024	LED	1000	36	<input checked="" type="checkbox"/>	-	-	-
	AUO	G190EG02 V1	SXGA - 1280 x 1024	LED	1000+	TBD	-	-	-	<input checked="" type="checkbox"/>
	AUO	M190EG01 V2	SXGA - 1280 x 1024	CCFL	1000	44	<input checked="" type="checkbox"/>	-	-	-
	AUO	G190ETN01.2	SXGA - 1280 x 1024	LED	1000	TBD	-	-	<input checked="" type="checkbox"/>	-
	LG	LM190E05-SL02	SXGA - 1280 x 1024	CCFL	500	22	<input checked="" type="checkbox"/>	-	-	-
	NLT	NL128102BC29-10	SXGA - 1280 x 1024	CCFL	950	63	<input checked="" type="checkbox"/>	-	-	-
20.1"	LG	LM201U05-SLL1	UXGA - 1600 x 1200	CCFL	800	60	<input checked="" type="checkbox"/>	-	-	-
	AUO	M201UN02 V6	UXGA - 1600 x 1200	CCFL	900	58.1	<input checked="" type="checkbox"/>	-	-	-
21.5"	AUO	G215HVN01.0	FHD - 1920 x 1080	LED	1000	TBD	-	<input checked="" type="checkbox"/>	-	-
	LG	LM215WF3-SLC1	FHD - 1920 x 1080	LED	1200+	TBD	-	-	-	<input checked="" type="checkbox"/>
22"	AUO	G220SW01 V0	WSXGA - 1680 x 1050	CCFL	1000	48.1	<input checked="" type="checkbox"/>	-	-	-
	AUO	G220SVN01 V0	WSXGA - 1680 x 1050	LED	1000+	TBD	-	-	-	<input checked="" type="checkbox"/>
24"	AUO	G240HW01 V0	FHD - 1920 x 1080	LED	800+	TBD	-	-	-	<input checked="" type="checkbox"/>
	SAMSUNG	LTM240CT04	WUXGA - 1920 x 1200	CCFL	1000	50	<input checked="" type="checkbox"/>	-	-	-
	LG	LM240WU8-SLA2	FHD - 1920 x 1080	LED	500	46.2	<input checked="" type="checkbox"/>	-	-	-
	LG	LM240WU8-SLA2	FHD - 1920 x 1080	LED	1000	46.2	-	<input checked="" type="checkbox"/>	-	-
26"	LG	LC260EUN-SDA1	FHD - 1920 x 1080	LED	400	41.3	-	-	<input checked="" type="checkbox"/>	-
32"	LG	LD320EUN-SEM1	WUXGA - 1080 x 1920	LED	800+	TBD	-	-	-	<input checked="" type="checkbox"/>

HB/NVIS Dual-Mode Displays (8.4"-24")

Size	OEM	P/N	Resolution	Day Performance	Night Performance	Available	Q1 '15	Q2 '15	Q3 '15
8.4"	NLT	NL10276BC16-06	XGA - 1024 x 768	1000 Nits @ 8.8W	4.7 Nits @ 1.2W	<input checked="" type="checkbox"/>	-	-	-
	mitsubishi	AA084XB11	XGA - 1024 x 768	1200 Nits @TBD	5.0 Nits @ TBD	-	-	-	<input checked="" type="checkbox"/>
10.4"	INNOLUX	G104X1-L04	XGA - 1024 x 768	650 Nits @ 12.6W	1.75 Nits @1.8W	<input checked="" type="checkbox"/>	-	-	-
	NLT	NL10276BC20-18	XGA - 1024 x 768	1500 Nits @ 15.2W	5 Nits @2.1W	<input checked="" type="checkbox"/>	-	-	-
10.6"	MITSUBISHI	AA106TA11	WXGA - 1280 x 800	1000 Nits @ 14.1W	3.7 Nits @ 3.1W	<input checked="" type="checkbox"/>	-	-	-
12.1"	NLT	NL10276BC24-21	XGA - 1024 x 768	1200 Nits @ 8.3W	5 Nits @2.1W	<input checked="" type="checkbox"/>	-	-	-
15"	NLT	NL10276BC30-33D	XGA - 1024 x 768	1400 Nits @ 15.75W	10 Nits @ 5.5W	<input checked="" type="checkbox"/>	-	-	-
	NLT	NL10276BC30-34D	XGA - 1024 x 768	1450 Nits @ 20.3W	4.1 Nits @ 3.4W	<input checked="" type="checkbox"/>	-	-	-
	NLT	NL10276BC30-39	XGA - 1024 x 768	TBD	TBD	-	-	<input checked="" type="checkbox"/>	-
15.4"	INNOLUX	G154I1-LE1	WXGA - 1280 x 800	1100 Nits @ 25.4W	3.8 Nits @ 4.6W	<input checked="" type="checkbox"/>	-	-	-
17"	AUO	G170EG01 V1	SXGA - 1280 x 1024	500 Nits @ 24.1W	3.5 Nits @ 4.1W	<input checked="" type="checkbox"/>	-	-	-
	MITSUBISHI	AA170ED01	SXGA - 1280 x 1024	1200 Nits @ 36.7W	13.0 Nits @ 5.8W	<input checked="" type="checkbox"/>	-	-	-
17.3"	AUO	G173HW01 V0	FHD - 1920 x 1080	TBD	TBD	-	-	-	<input checked="" type="checkbox"/>
19"	AUO	G190EG01 V1	SXGA - 1280 x 1024	TBD	TBD	-	-	-	<input checked="" type="checkbox"/>
	NLT	NL128102BC29-10	SXGA - 1280 x 1024	800 Nits@ 50.4W	10.0 Nits @ 8.5W	<input checked="" type="checkbox"/>	-	-	-
24"	AUO	G240HW01 V0	FHD - 1920 x 1080	TBD	TBD	-	-	-	<input checked="" type="checkbox"/>
	LG	LM240WU8-SLA2	FHD - 1920 x 1080	TBD	TBD	-	-	<input checked="" type="checkbox"/>	-


8.4" SVGA
G084SN05 V9
 900 Nits
 4.4 Watts

12.1" XGA
G121XN01 V0
 1200 Nits
 9.9 Watts

15.0" XGA
G150XG01 V3
 1500 Nits
 18.8 Watts

G150XG01 V4
 1300 Nits
 26.6 Watts

15.6" SVGA
G156XW01 V1
 700N
 21.7 Watts

17.0" SXGA
G170EG01 V0
 1050 Nits
 23.8 Watts

G170EG01 V1
 1000 Nits
 Coming Q3 '15

17.0" SXGA
M170EG01 V5
 900 Nits
 38.7 Watts

17.3" FHD
G170EG01 V1
 1000 Nits
 28.4 Watts

19.0" SXGA
G190EG01 V0
 1200 Nits
 25.4 Watts

G190EG01 V1
 1000 Nits
 36.0 Watts

G190EG02 V1
 1000+ Nits
 Coming Q3 '15

M190EG01 V2
 1000 Nits
 44.0 Watts

G190ETN01.2
 1000+ Nits
 Coming Q2 '15

21.5" FHD
G215HVN01.0
 1000+ Nits
 Coming Q1 '15

22.0" WSXGA
G220SW01 V0
 1000 Nits
 48.1 Watts

G220SVN01 V0
 1000+ Nits
 Coming Q3 '15

24.0" FHD
G240HW01 V0
 800+ Nits
 Coming Q3 '15

INNOLUX

7.0" WVGA

 G070Y2-L01
 1000 Nits
 3.2 Watts

10.4" XGA

 G2G104X1-L04
 1000 Nits
 11.7 Watts

12.1" XGA

 G121X1-L03
 1200 Nits
 9.8 Watts

12.1" WXGA

 G12111-L01
 1200 Nits
 19.6 Watts

15.0" XGA

 G150XGE-L04/5
 1000 Nits
 23.2 Watts

15.4" WXGA

 G15411-LE1
 1100 Nits
 28.9 Watts

10.4" SVGA

 LB104S04-TL01
 1000 Nits
 7.8 Watts

15.0" XGA

 LB150X02-TL02
 1500 Nits
 26.4 Watts

19.0" SXGA

 LM190E05-SL02
 500 Nits
 22.0 Watts

20.1" UXGA

 LM201U05-SL11
 800 Nits
 60.0 Watts

21.5" FHD

 LM215WF3-SLC1
 1200 Nits
 Coming Q2 '15

24.0" FHD

 LM240WU8-SLA2
 500 Nits
 46.2 Watts

26.0" FHD

 LM240WU8-SLA2
 400 Nits
 Coming Q2 '15

32.0" FHD

 LD320EUN-SEM1
 800+ Nits
 Coming Q3 '15



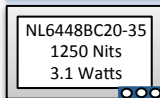
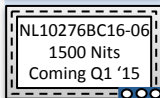
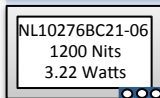
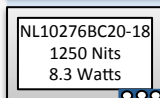
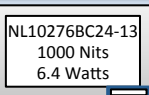
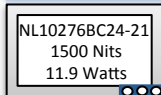
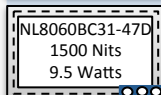
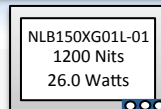
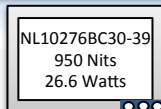
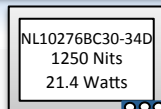
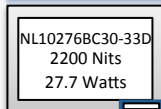
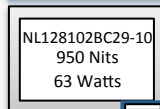
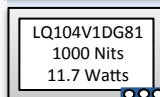
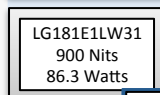
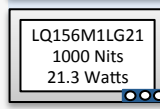
24.0" FHD

 LTM240CT04
 1000 Nits
 50 Watts

5.7" QVGA

 TM057KDH02
 2200 Nits
 3.1 Watts


NLT Technologies, Ltd.
 Originally NEC LCD Technologies, Ltd.

6.5" VGA

8.4" XGA

8.4" SVGA

10.4" XGA

12.1" XGA

12.1" SVGA

15.0" XGA

19.0" SXGA

SHARP
10.4" VGA

18.0" SXGA

15.6" FHD



17.0" SXGA

 G170EG01 V0
 500/3.5 Nits
 24.1/4.1 Watts

17.3" FHD

 G173HW01 V0
 Specs TBD
 Coming Q3 '15

19.0" SXGA

 G190EG01 V1
 Specs TBD
 Coming Q3 '15

24.0" FHD

 G240HW01 V0
 Specs TBD
 Coming Q3 '15

8.4" XGA

 AA084XB11
 1200/5 Nits
 Coming Q3'15

10.6" WXGA

 AA106TA11
 1000/3.7 Nits
 14.1/3.1 Watts

24.0" FHD

 LM240WU8-SLA2
 Specs TBD
 Coming Q2 '15

10.4" XGA

 G104X1-L04
 650/1.75 Nits
 12.6/1.8 Watts

15.4" WXGA

 G154I1-LE1
 1100/3.8 Nits
 25.4/4.6 Watts


8.4" XGA

 NL10276BC16-06
1000/4.7 Nits
8.8/1.2 Watts

10.4" XGA

 NL10276BC20-18
1500/5.0 Nits
15.2/2.1 Watts

12.1" XGA

 NL10276BC24-21
1200/5.0 Nits
8.3/2.1 Watts

15.0" XGA

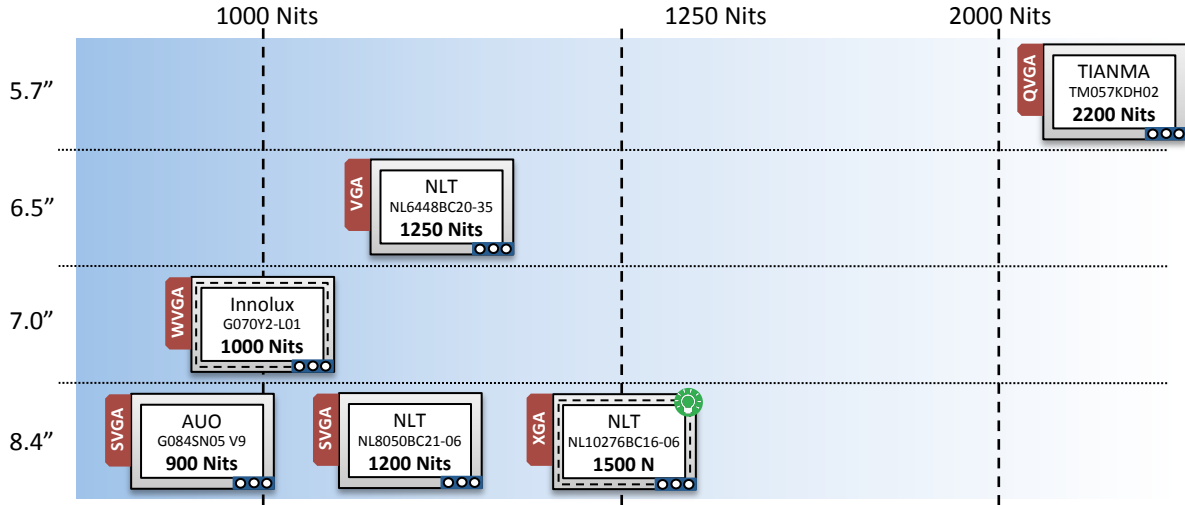
 NL10276BC30-34D
1400/10 Nits
15.75/5.5 Watts

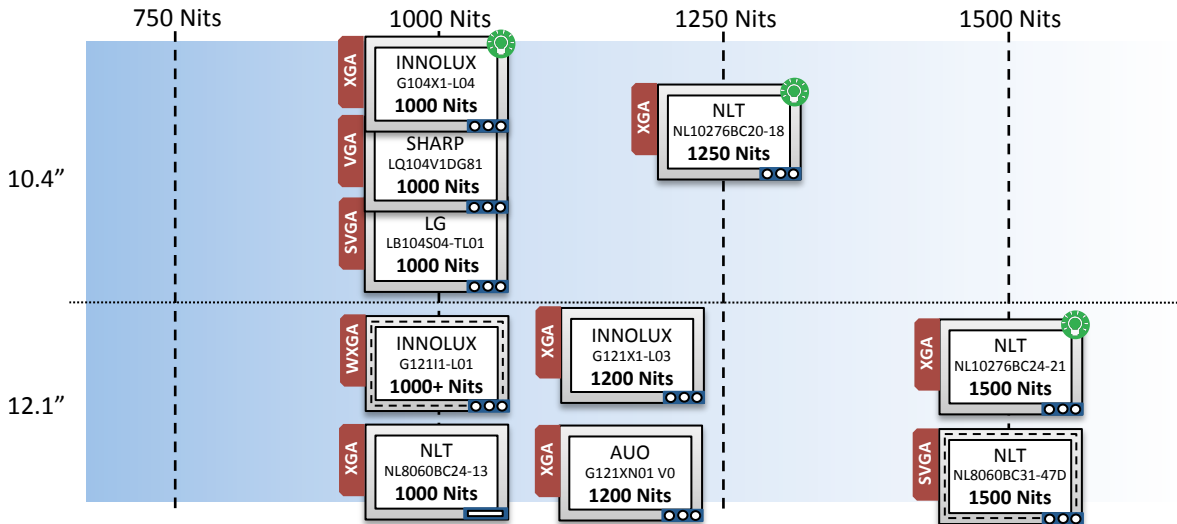
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Specs TBD
Coming Q2 '15

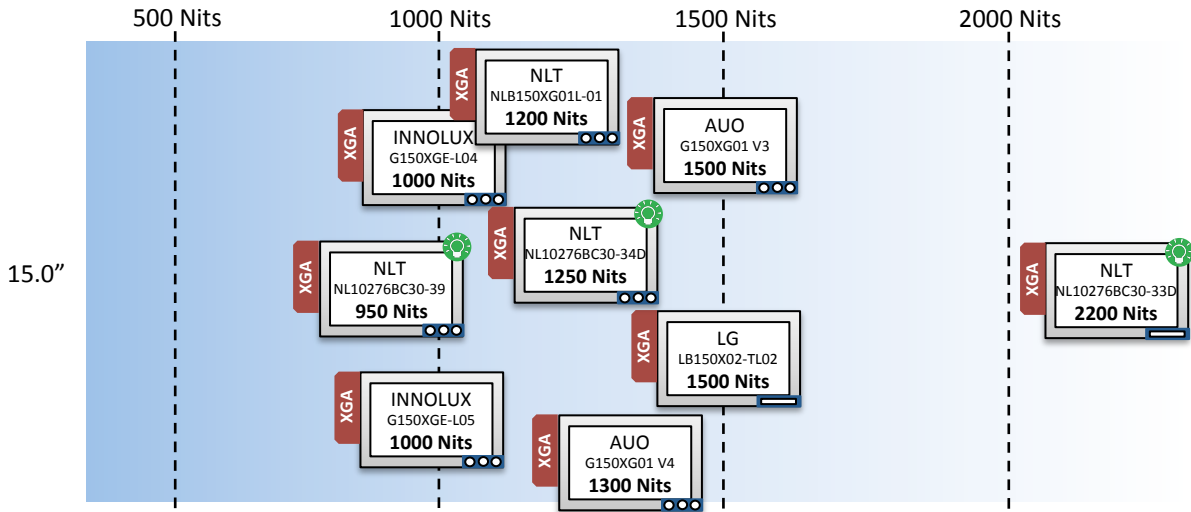
 NL10276BC30-33D
10 Nits
5.5 Watts

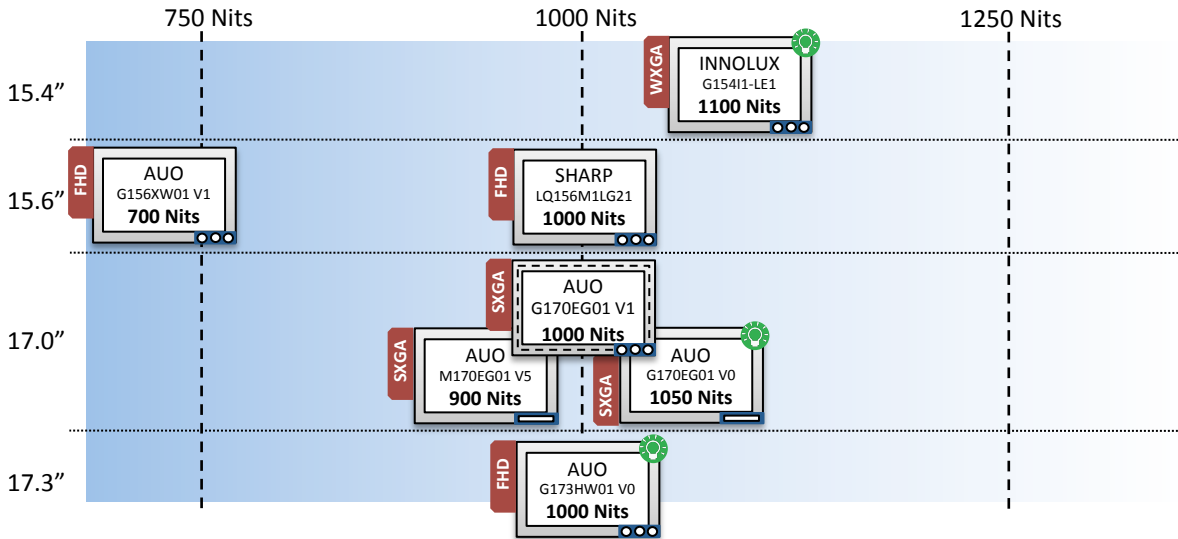
19.0" SXGA

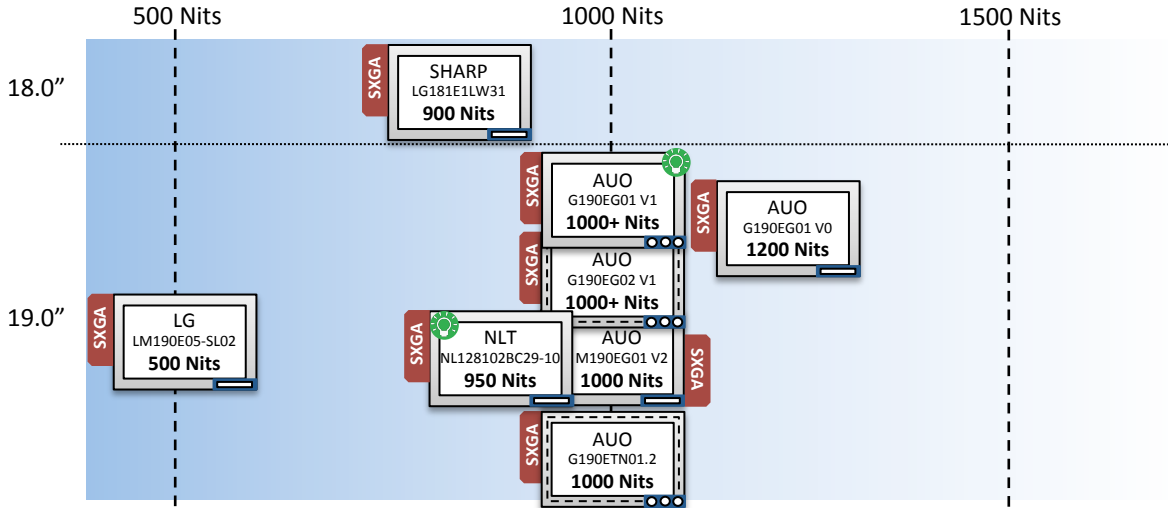
 NL128102BC29-10
800/10 Nits
50.4/8.5 Watts

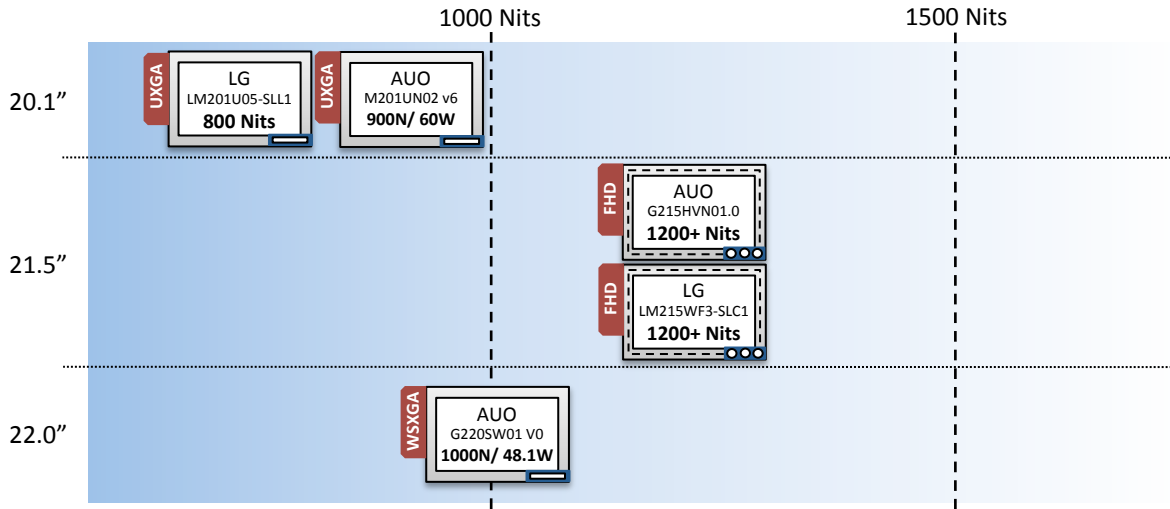


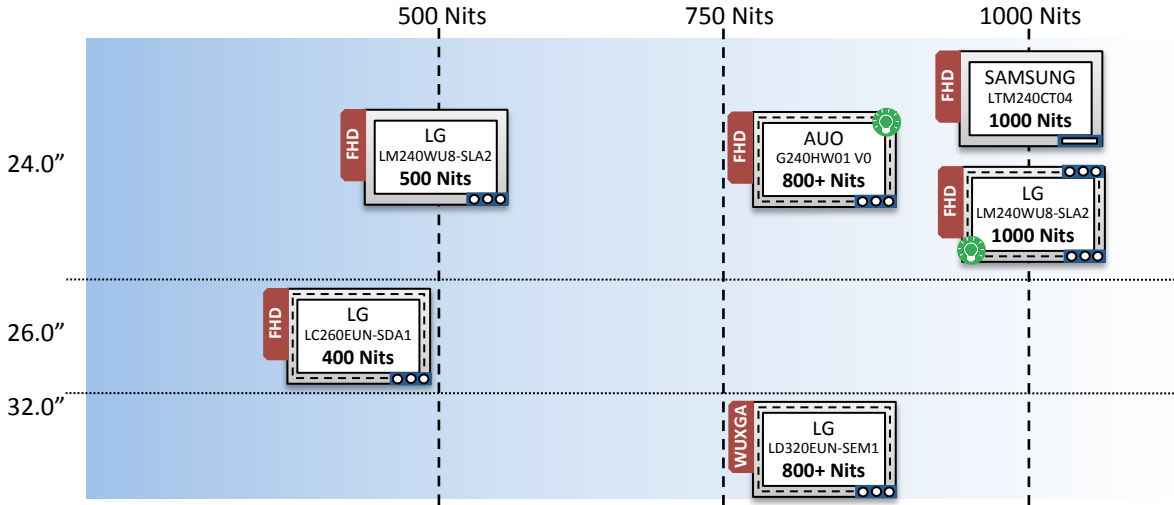




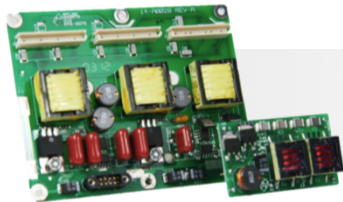








ACI's I-Drive Series of **LED Drivers** are ruggedized, constant current drivers with ultra-wide range dimming and an on board micro-controller that can be tuned for any backlight application.



In addition to LED Drivers, ACI is your trusted source for **CCFL Inverters** to prolong the life of your existing displays and other CCFL applications.

Applied Concepts, Inc.

397 State Route 281
Tully, NY 13159-1175



(315) 696-6676



(315) 696-9923



sales@acipower.com



www.acipower.com



www.twitter.com/acipower