AMPIRE

Industrial Quality
Display Solution

Be Creative & Do Better

AMPIRE

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Ampire's Vision

WE WANT to be creative in all of our products.
WE WANT to configure them to what you need.
WE WANT to meet the highest industrial qualities.
WE WANT to offer the most reasonable costs.
WE WANT to make your life easier.
WE WANT to do better displays.

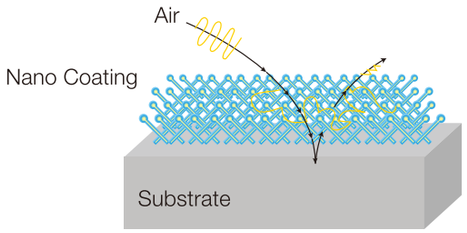
Nano Lamination

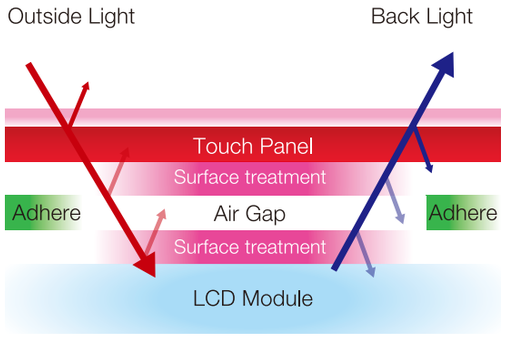
Nano Optical Lamination Technology

Traditional solution is to use direct optical bonding to eliminate the reflection and refraction induced by air gap between the P-cap and LCM.

Ampire Nano optical lamination technology is a low cost solution to reduce reflection and refraction comparing with the direct optical bonding.

Nano Coating





Optical improvement	Direct bonding	Nano Optical lamination
Reflectivity	4% → 0.1%	4% → 0.1%
Penetration ratio	90% → 94%	90% → 94%
Contrast ratio	↑ 400%	↑ 400%
Rebound bubble	Yes	No
Yellowish spot	Yes	No
cost	High	Middle

Advantage

- 100% optical performance replacing Direct Optical bonding.
- High yield ratio from production.
- Easy repair from after service.
- The solution available for size 3.5”~19”
- No yellow spot worry
- No bubble trouble

Nano Optical Lamination V.S. 1 time bonding + tape bonded

Under direct sunlight comparison

New Product

Bar Display- Available size: 6.3”, 8.8”, 10.2”, 12.3”, 19”, 28”

Ultra wide aspect ratio offers a fresh approach to catch audiences’ attention and options of sunlight readability and touch panel which making them an ideal solution of public transportation like bus/subway, gaming machine or wayfinding application.

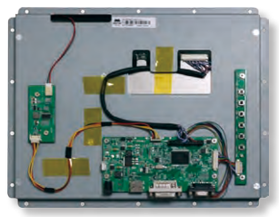
Application

- Ticket and vending machine
- Wayfinding system
- Gaming machine

Size	6.3”	8.8” IPS	10.2” IPS	12.3”	12.3” IPS	19”IPS	28”IPS
Resolution	800x256	480x1920	1280x480	1280x480	1920x720	1920x360	1920x357
Product line	AM-800256A	AM-4801920A	AM-1280480C	AM-1280480A	AM-1920720B	AM-1920360A	AM-1920357A
Module size (mm)	165.0x66.96x 6.76	64.3x231.3x 4.8	265.2x109.8x 8.65	125x317x44.1	313.8x132.2x 13.3	502.8x124.4x 12.82	733.78x165.34x 20.8
Brightness	500	600	600	1000	700	700	700
Interface	LVDS	MIPI	LVDS	LVDS	LVDS	LVDS	LVDS
Viewing angle	70/60/70/70	85/85/85/85	85/85/85/85	55/55/60/60	85/85/85/85	89/89/89/89	89/89/89/89
Touch panel	P-CAP (EXC7200 / EXC3132)	Option	Option	P-CAP (EXC3146 / ILI2312)	P-CAP (EXC3146 / ILI2312)	Option	Option

Open Frame LCD- Available size: 10.1”, 12.1"

Open Frame LCD supports front / rear mount for easy installation; industrial display provides 1000nits high brightness, option of Resistive Touch Screen (USB / RS232) and Capacitive Touch Screen (I2C / USB) and they are perfect solution for applications such as kiosk, gaming machine or industrial controller.



Size	10.1”	12.1"
Product line	FRAME-101	FRAME-121
LCD Module	AM1280800N1,N2 Series	AM1024768R2 Series
Resolution	1024x768	1280x1024
Interface	VGA/DVI/HDMI	VGA/DVI/HDMI
Power Adapter	Universal AC100V~240V 50~60Hz I	Universal AC100V~240V 50~60Hz I
Input Voltage	DC 12V	DC 12V
Optional	4wire Touch with controller board (RS232 / USB) Projected Capacitive Touch (I2C / USB) High Brightness LCD Panel	

Application

- Kiosk
- Gaming and amusement
- Industrial controller

New line-up
IPS-LCD







Size	3.5" Transflective	3.5" IPS	5"	7"	7"	7" IPS	7"
Resolution	480x640	480x640	800x480	800x480	800x480	800x480	1024x600
Product Line	AM-480640BTG	AM-480640BTZ	AM-800480AZ	AM-800480AW	AM-800480B	AM-800480AY	AM-1024600A
Display Area	53.568*71.424	53.568*71.424	108.0*64.8	153.84*85.63	153.6*86.64	154.08*85.92	153.6*86.64
Module size (mm)	75.9*95.6*7.25	75.9*95.6*7.25	119.7*136.8*5.8	164.9*100*5.7	164.9*100*9.65	164.9*100*5.7	164.9*100*9.65
Display Color	262K	262K	16.7M	262K / 16.7M	16.7M	16.7M	16.7M
Backlight Type	LED	LED	LED	LED	LED	LED	LED
Viewing Angle (U / D / L / R)	80 / 80 / 80 / 80	80 / 80 / 80 / 80	70 / 60 / 75 / 75	60 / 70 / 70 / 70	50 / 60 / 70 / 70	88 / 88 / 88 / 88	70 / 80 / 80 / 80
Power Supply Voltage (LCD)	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V
Power Consumption (B / L)	864mW	864mW	2160mW	1980 / 2673mW	1963.5 / 3168mW	1674mW	2772 / 3168 mW
Operating Temperature	-10~60	-10~60	-20~70	-20~70	-20~70	-20~70	-20~70
Storage Temperature	-20~70	-20~70	-30~80	-30~80	-30~80	-30~80	-30~80
LCD Controller	N / A	N / A	Option	Option	N / A	N / A	N / A
Brightness (nits)	150nit	500nit	1000nit	350 / 800nit	500 / 1000nit	550nit	500/1000nit
Contrast Ratio	250	300	600	500	500	900	700
Response Time	30ms	30ms	6ms	15ms	20ms	30ms	24ms
Interface	TTL / LVDS	TTL / LVDS	TTL / MCU / LVDS	TTL / LVDS / MCU	TTL / LVDS	TTL / LVDS	LVDS
Touch Panel	P-CAP (ST1624 / I2C only)	P-CAP (ST1624 / I2C only)	P-CAP (ST1633i / EXC7200)	P-CAP (ILI2117 / I2C only)	P-CAP (ILI2117 / EXC3132 / ILI2312)	P-CAP (ILI2117 / I2C only)	P-CAP (ILI2117 / EXC3132 / ILI2312)







Size	7" IPS	7" IPS	9" IPS	9.7" IPS	10.1" IPS	10.4" IPS	12.1" IPS
Resolution	1024x600	1280x800	1024x600	1024x768	1920x1200	1024x768	1024x768
Product Line	AM-1024600D	AM-1280800P	AM-1024600Y	AM-1024768X	AM-19201200B	AM-1024768Y	AM-1024768Z
Display Area	154.21*85.92	149.76*93.6	196.6*114.1	196.608*147.456	216.81*135.50	211.2*158.4	245.76*184.32
Module size (mm)	164.9*100*9.65	162.5*107.8*9.8	211.1*126.5*6.8	243*185.6*7.2	227.7*147.8*5.35	236*174.3*7.4	260.5*204*8.4
Display Color	16.7M	16.7M	16.2M	16.7M	16.7M	16.2M	16.7M
Backlight Type	LED	LED	LED	LED	LED	LED	LED
Viewing Angle (U / D / L / R)	85 / 85 / 85 / 85	80 / 80 / 80 / 80	85 / 85 / 85 / 85	85 / 85 / 85 / 85	85 / 85 / 85 / 85	85 / 85 / 85 / 85	85 / 85 / 85 / 85
Power Supply Voltage (LCD)	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V
Power Consumption (B / L)	2772 / 3484 mW	2520 / 6600mW	1470mW	5400 / mW	7560 / 7920mW	6192mW	1140mW
Operating Temperature	-20~70	-20~70	-30~85	-20~65	-20~65	-20~70	-30~85
Storage Temperature	-30~80	-30~80	-30~85	-20~65	-30~80	-30~80	-40~90
LCD Controller	N / A	N / A	N / A	N / A	N / A	N / A	N / A
Brightness (nits)	500 / 1000nit	500 / 1500	500nit / 1200nit	500nit / 1000nit	400nit / 1000nit	600nit	600nit
Contrast Ratio	800	800	800	*00	800	900	900
Response Time	25ms	35ms	17ms	20ms	25ms	30ms	30ms
Interface	LVDS	LVDS	LVDS	LVDS	MIPI / LVDS	LVDS	LVDS
Touch Panel	P-CAP (ILI2117 / EXC3132 / ILI2312)	P-CAP (EETI / 3132)	Option	P-CAP (EXC3132 / 5440)	P-CAP (EXC3000 / EXC3132 / ILI2312)	P-CAP (EXC3000)	P-CAP (EXC3000)

MCU MCU interface

Wide temperature tolerance

85° Ultra wide view angles

85°+ Extreme wide view angles

High brightness

Ultra high brightness

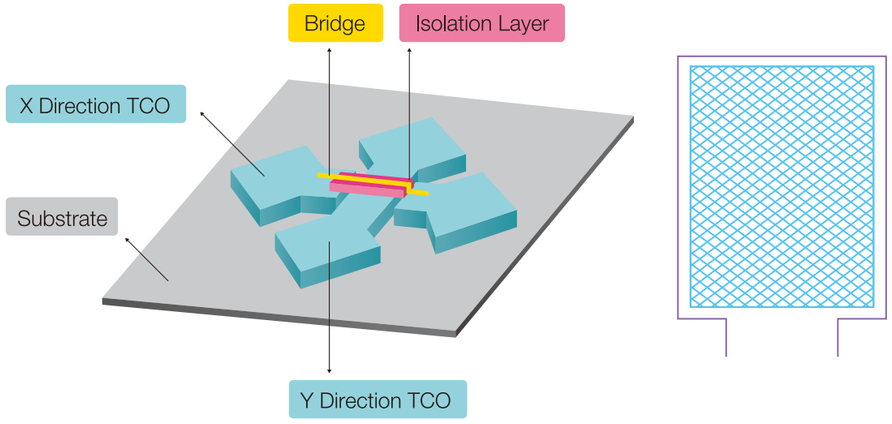
LVDS LVDS

Projected Capacitive

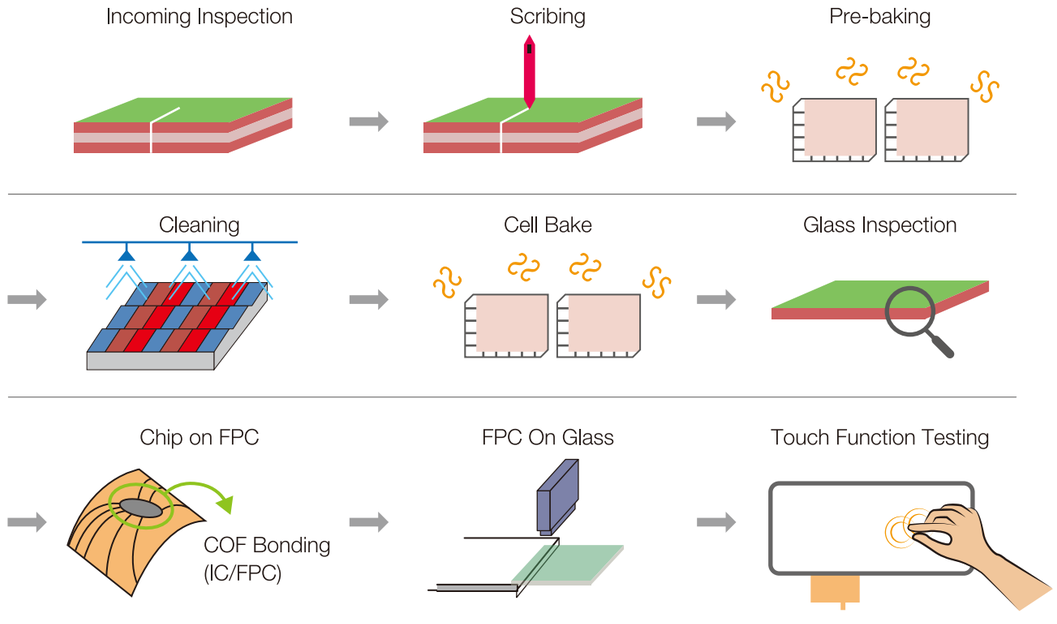
What's New

Ampire's P-cap Solutions

In housing design and production for projective capacitive touch panel.

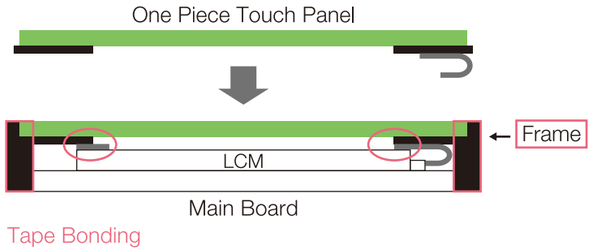


Cell Process Flow/P-Cap



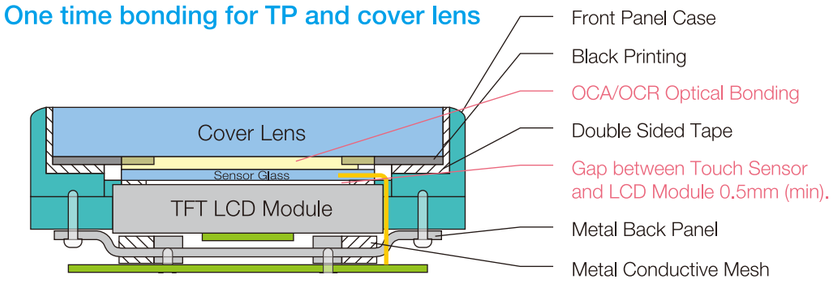
Various Structure Supports

Tape bonding and use it as OGS solution



Tape Bonding

One time bonding for TP and cover lens



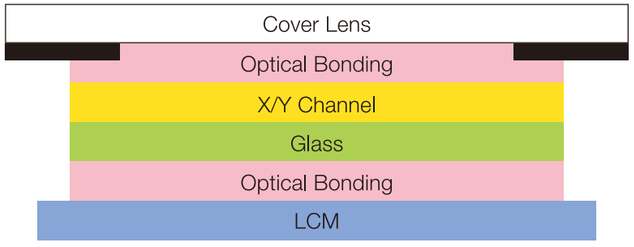
Two times bonding as sandwich design

Advantage of optical bonding:

1. Protection purpose for Vandal or weatherproof.
2. To increase the clarity and visibility by reducing the internal reflection.
3. Anti-vibration, shock, shakes protection.
4. Anti-dust and moisture-proof by filling the gaps.
5. It is applied to any kind of display, such as mono LCD, TFT, OLED.

Application:

Kiosk, military display, transportation display, fish finding



Various Structure Supports

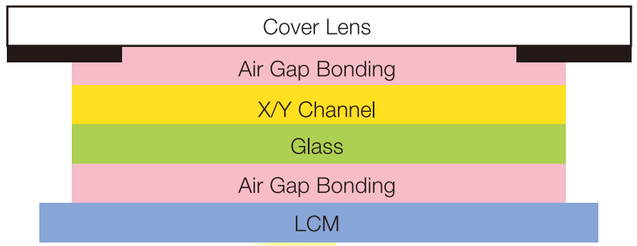
Air bonding/ No bonding needed. Saving the optical bonding cost.

Advantage of Air bonding:

1. Cost saving from optical bonding.
2. Easy installation.
3. Easy repairing.

Application:

outdoor application, gaming, public Kiosk



Advantage of Ampire Projective capacity touch panel:

1. Full sizes supporting from 3.5”~15”.
2. Easy design – various OS supporting, tuning kit support, FW update software installing in customer system.
3. Air gap solution for optical bonding cost saving.
4. Bonding service support.
5. Standard cover lens as options.
6. Thick cover lens supporting- up to 9mm.
7. Glove touching supporting.
8. Water resistance.
9. Palm rejection support.
10. Wide OP temperature supporting- up to -30~+80 by request.

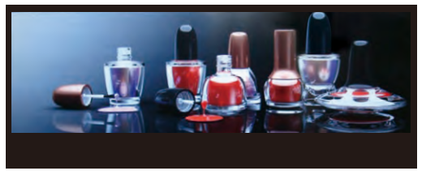
Supporting size

3.5” 4:3	4:3” 16:9	5” 16:9	5.7” 4:3	7” 16:9
8” 16:9	8” 4:3	8.4” 4:3	9” 16:9	10.1” 16:10
10.1” 128:75	10.4” 4:3	12.1” 4:3	15” 4:3	

Reshaping Display Solution

Advantage:

1. Low cost comparing with customized TFT glass.
2. Low MOQ for customized size.
3. Flexible size available, 5”~15”.
4. Shorter lead time: Design duration around 12 weeks.



Ampire's value adds

MCU interface

It is a micro controller that receives 16-bits control data and drive a TFT display with RGB interface. It helps the customer to design TFT display through a more familiar plateform. This chip is desgined and patented by Ampire. It also makes the display module option more fexible and extends the product life cycle.

- **Available up to 800x480 resolution**

Super wide view angles

Ampire incorporates the latest IPS & MVA technologies that deliver extremely wide viewing angles up to 89 degrees.
In other words, the color of the image remains the same from all directions. This is ideal to make applications that focuses on color accuracy for multiple users.

- **Avaliable in 10.1" (IPS)**
- **Available in 4.3", 10.4" (MVA)**

LVDS

This is the most adapted interface for systems with high end processor and high resoltion display panels. It has high speed data transfer and low noise level.

- **Available in 640x480 resolution and up**

High brightness

Ultra high brightness

Outdoor equipments are getting lighter and more powerful to handle sophisticated tasks. LCD displays are applied in more industrial equipments other than communication devices. High brightness are extremely important against sunlight. Ampire is able to implement high brightness backlight up to 1000 nits to the displays.

- **High brightness available in all sizes**
- **Extreme high brightness available in 3.5", 4.3", 5", 5.7", 7", 8", 8.4", 9", 10.1", 10.4", 12.1", 15"**

Enhanced wide view angles

Many industrial applications do not focus on the color accuracy from all angles. Instead, the uniformity of color is more important and minor color shifting is acceptable. Ampire is able to enhance any TN glass with our EVA process.
The viewing angles are uniform up to 85 degree.
It also has more cost advantage than IPS technology.

- **Available in all sizes up to 15"**

Wide temperature tolerance
(automotive grade)

This is one of the most important criteria in industrial application development.
Ampire is able to build display module using materials with high temperature tolerance and design the structures with fast heat sink to tolerate high temperature environment. Heater circuit can also be built-in to tolerate low temperature environment.

- **-20 ºC to +70 ºC in all size**
- **Special temperature range can be built upon requests**

Products

TFT

MCU interface

Wide temperature tolerance

Ultra wide view angles

Extreme wide view angles

High brightness

Ultra high brightness

LVDS

Surface Capacitive

Projected Capacitive

Size	PMOLED 1.46"	PMOLED 1.8"	2.2"	2.4"	3.2"
Resolution	128 × 128	160 × 128	240 × RGB × 320	240 × RGB × 320	240 × RGB × 320
Product Line	AE-128128ZOF	AE-160128DQFET	AM-240320J4	AM-240320LG	AM-240320D5
Display Area	26.279 (W) × 26.284 (H)	35.015 (W) × 28.012 (H)	35.08 (W) × 46.24 (H)	36.72 (W) × 48.96 (H)	48.6 (W) × 64.8 (H)
Module size (mm)	33.5 (W) × 46.33 (H) × 1.61 (D)	42.8(W) x 33.5 (H) × 1.82 (D)	40.1 (W) × 71.9 (H) × 3.65 (D)	43.6 (W) × 85.5 (H) × 2.8 (T)	55.64 (H) × 77.3 (V) × 4.9 (T)
Display Color	65K / 262K	65K / 262K	65K / 262K	65K / 262K	262K
Backlight Type	N / A	N / A	LED	LED	LED
Viewing Angle (Up, Down, Left, Right)	80, 80, 80, 80	80, 80, 80, 80	80, 80, 80, 80	35, 65, 70, 70	35, 15, 60, 60
Power Supply Voltage (LCD)	Mulit-power	Mulit-power	2.8V	2.8V	3.0V
Power consumption	495mW	663mW	20mW	16.8mW	30mW
Operating Temperature	-40 ~ +70	-40 ~ +70	-20 ~ +70	-20 ~ +70	-10 ~ +60
Storage Temperature	-40 ~ +85	-40 ~ +85	-30 ~ +80	-30 ~ +80	-20 ~ +70
LCD Controller	Bulid-in	Bulid-in	Bulid-in	Built-in	Built-in
Brightness (nits)	90	80	400	220	160
Contrast Ratio	2000:1	2000:1	700:1	200:1	250:1
Response Time	10us	10us	55ms	35ms	50ms
Interface	MCU	MCU	MCU / RGB	RGB / MCU	RGB / MCU
T/P	N / A	N / A	N / A	Option	Option

Size	AMOLED 3.5"	3.5"	3.5"	4.3"
Resolution	320 × 480	320 × RGB × 240	320 × RGB × 480	480 × RGB × 272
Product Line	AE-320480COFET	AM-320240L Series	AM-320480B5	AM-480272H Series
Display Area	48.96 (W) × 73.44 (H)	70.08 (W) × 52.56 (H)	48.96 (W) × 73.44 (H)	95.04 (W) × 53.856 (H)
Module size (mm)	52.9(W × 120.6(H) × 1.21(D)	77.8 (W) × 64.5 (H) × 3.2 (T)	58.0 (W) × 87.0 (H) × 5.62 (D)	105.5 (W) × 114.05 (H) × 3.95 (T)
Display Color	16.7M	65K / 262K		16.7M
Backlight Type	N / A	LED	LED	LED
Viewing Angle (Up, Down, Left, Right)	85, 85, 85, 85	55, 35, 70, 70	70, 70, 70, 60	45, 45, 65, 65
Power Supply Voltage (LCD)	3.7V	3.3V	3.3V	3.3V
Power consumption	700mW	1,056mW	100mW	148.5mW
Operating Temperature	-20 ~ +60	-20 ~ +70	-20 ~ +70	-20 ~ +70
Storage Temperature	-30 ~ +70	-30 ~ +80	-30 ~ +80	-30 ~ +80
LCD Controller	Bulid-in	Option	N / A	N/A
Brightness (nits)	200	250 / 350 / 500	450	250 / 500
Contrast Ratio	100000:1	300:1	500:1	250:1
Response Time	1us	50ms	30ms	40ms
Interface	MCU / RGB	RGB / MCU	MCU / RGB / LVDS	RGB / MCU
T/P	N / A	Option	Option	Option

Products

TFT

MCU interface

Wide temperature tolerance

Ultra wide view angles

Extreme wide view angles

High brightness

Ultra high brightness

LVDS

Surface Capacitive

Projected Capacitive

Size	4.3"	5"	5.7"	5.7"	5.7"
Resolution	480 × RGB × 272	800 × RGB × 480	320 × RGB × 240	320 × RGB × 240	320 ×RGB ×240
Product Line	AM-480272Q Series	AM-800480L Series	AM-320240N	AM-320240N1/N9	AM-320240NS
Display Area	95.04 (W) × 53.856 (H)	110.6 (W) × 67.4 (H)	115.2 (W) × 86.4 (H)	115.2 (W) × 86.4 (H)	115.2 (W) × 86.4 (H)
Module size (mm)	68.2 (W) × 105.5 (H) × 6.71 (T)	119.0 (W) × 135.0 (H) × 3.2 (T)	131.0 (W) × 102.2 (H) × 12.4 / 11.9 (T)	167 (W) × 109.0 (H) × 8.9 / 13.1 (T)	144.0 (W) × 104.6 (H) × 13.0 (T)
Display Color	262K	16.7M	262K	262K	262K
Backlight Type	White LED	LED	LED	LED	LED / CCFL
Viewing Angle (Up, Down, Left, Right)	80, 80, 80, 80	70, 50, 70, 70	70, 50, 70, 70	70, 50, 70, 70	70, 50, 70, 70
Power Supply Voltage (LCD)	3.3V	3.3V	3.3V	3.3V	3.3V
Power consumption	787mW	396mW	1,358.1mW	148.5mW	148.5mW
Operating Temperature	-30 ~ +80	-20 ~ +70	-20 ~ +70	-20 ~ +70	-20 ~ +70
Storage Temperature	-40 ~ +85	-30 ~ +80	-30 ~ +80	-30 ~ +80	-30 ~ +80
LCD Controller	N/A	Option	Option	Option	Option
Brightness (nits)	500	450	500	500	500
Contrast Ratio	500:1	250:1	350:1	350:1	350:1
Response Time	35ms	15ms	50ms	50ms	50ms
Interface	RGB / MCU	RGB / MCU	RGB / MCU	RGB / MCU	RGB / MCU
T/P	Option	Option	Option	Option	Option

Size	5.7"	5.7"	5.7"	6.5"	6.5"
Resolution	640 × RGB × 480	640 × RGB × 480	640 × RGB × 480	800 × 480	640 × 480
Product Line	AM-640480GH	AM-640480GS	AM-640480G2 Series	AM-800480AC	AM-640480N
Display Area	115.2 (W) × 86.4 (H)	115.2 (W) × 86.4 (H)	115.2 (W) × 86.4 (H)	143.4 (W) × 76.704 (H)	132.48 (W) × 99.36 (H)
Module size (mm)	131.0 (W) × 102.2 (H) ×11.6 (T)	144.0 (W) × 104.6 (H) ×12.3 (T)	127.0 (W) × 98.43 (H) × 6.6 (T)	155.2 (W) × 89.4 (H) × 5.5 (T)	153.0 (W) × 118.0(H) × 10.9 (T)
Display Color	262K	262K	262K	16.7M	262K
Backlight Type	LED	LED	LED	White LED	LED
Viewing Angle (Up, Down, Left, Right)	65, 65, 75, 75	65, 65, 75, 75	50, 70, 70, 70	50, 70, 70, 70	60, 70, 70, 70
Power Supply Voltage (LCD)	3.3V	3.3V	3.3V	3.3V	3.3V
Power consumption	270mW	270mW	270mW	1488mW	3093mW
Operating Temperature	-20 ~ +70	-20 ~ +70	-20 ~ +70	-30 ~ +85	-20 ~ +70
Storage Temperature	-30 ~ +80	-30 ~ +80	-30 ~ +80	-30 ~ +85	-30 ~ +80
LCD Controller	N/A	N/A	Option	Option	Option
Brightness (nits)	350	400	250 / 500 / 1000	500	800
Contrast Ratio	250:1	250:1	250:1	500:1	500:1
Response Time	50ms	50ms	50ms	35ms	20ms
Interface	RGB	RGB	RGB / MCU / LVDS	RGB	LVDS
T/P	Option	Option	Option	Option	N/A

Products

TFT

MCU interface

Wide temperature tolerance

Ultra wide view angles

Extreme wide view angles

High brightness

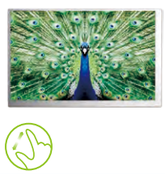
Ultra high brightness

LVDS

Surface Capacitive

Projected Capacitive

Size	7"	7"	7"	8"
Resolution	800 × RGB × 480	800 × RGB × 480	1024 × RGB × 600	800 × RGB × 480
Product Line	AM-800480S Series	AM-800480R Series	AM-1024600K Series	AM-800480D1
Display Area	152.4 (W) × 91.44 (H)	152.4 (W) × 94.44 (H)	153.6 (W) × 90.0 (H)	176.64 (W) × 99.36 (H)
Module size (mm)	165 (W) × 104.44 (H) × 9.16 (T)	165 (W) × 104.44 (H) × 6.76 (T)	165.5 (W) × 104.44 (H) × 7.41 (T)	192.8 (W) × 116.9 (H) × 6.4 (T)
Display Color	262K	262K	16M	16M
Backlight Type	LED	White LED	White LED	LED
Viewing Angle (Up, Down, Left, Right)	60, 70, 70, 70	50, 60, 60, 60	75, 75, 70, 75	70, 70, 50, 60
Power Supply Voltage (LCD)	3.3V	3.3V	3.3V	3.0V
Power consumption	405mW	2700mW	4495mW	1840mW
Operating Temperature	-20 ~ +70	-20 ~ +70	-20 ~ +70	-20 ~ +70
Storage Temperature	-30 ~ +80	-30 ~ +80	-30 ~ +80	-30 ~ +80
LCD Controller	Option	N/A	N/A	N/A
Brightness (nits)	350 / 500	500 / 1000	500	250
Contrast Ratio	400:1	400:1	700:1	500:1
Response Time	16ms	16ms	10ms	25ms
Interface	RGB / LVDS / MCU	LVDS / RGB	LVDS	RGB
T/P	Option	Option	Option	Option



Size	8"	8.4"	9"
Resolution	800 × RGB × 600	800 × RGB × 600	800 × RGB × 480
Product Line	AM-800600P5 Series	AM-800600M Series	AM-800480AH
Display Area	162.0 (W) × 121.5 (H)	170.4 (W) × 127.8 (H)	198.0 (W) × 111.696 (H)
Module size (mm)	183.0 (W) × 141.0 (H) × 6.7 (T)	203 (W) × 145.5 (H) × 8.0 (T)	211.1 (W) × 126.5 (H) × 5.9 (D)
Display Color	16.7M	16M	16M
Backlight Type	White LED	LED	LED
Viewing Angle (Up, Down, Left, Right)	70, 70, 50, 70	75, 75, 60, 70	70, 70, 50, 70
Power Supply Voltage (LCD)	3.3V	3.3V	3.3V
Power consumption	2060mW	2442mW	800mW
Operating Temperature	-20 ~ +70	-20 ~ +70	-20 ~ +80
Storage Temperature	-30 ~ +80	-30 ~ +80	-30 ~ +80
LCD Controller	N/A	N/A	N / A
Brightness (nits)	500	500 / 350	500
Contrast Ratio	500:1	600:1	500:1
Response Time	25ms	8ms	25ms
Interface	RGB	RGB / LVDS	LVDS
T/P	Option	Option	Option

Products

TFT

MCU interface

Wide temperature tolerance

Ultra wide view angles

Extreme wide view angles

High brightness

Ultra high brightness

LVDS

Surface Capacitive

Projected Capacitive

Size	10.1" (IPS)	10.1"	10.4"	10.4"
Resolution	1280 × RGB × 800	1024 × RGB × 600	640 × RGB × 480	800 × RGB × 600
Product Line	AM-1280800N	AM-1024600L Series	AM-640480E	AM-800600K Series
Display Area	216.96 (W) × 135.6 (H)	222.72 (W) × 125.28 (H)	211.2 (W) × 158.4 (H)	211.2 (W) × 158.4 (H)
Module size (mm)	229.46 (W) × 149.1 (H) × 4.56 (D)	235.0 (W) × 145.8 (H) × 6.944 (T)	225.5 (W) × 176.3 (H) × 9.5 (T)	243.0 (W) × 185.6 (H) × 7.2 (T)
Display Color	16.7M	262K	262K	262K / 16M
Backlight Type	LED	LED	LED	White LED
Viewing Angle (Up, Down, Left, Right)	85, 85, 85, 85	70, 70, 70, 50	85, 85, 85, 85	50, 60, 70, 70
Power Supply Voltage (LCD)	3.3V	3.3V	3.3V	3.3V
Power consumption	1000mW	480mW (min)	1485mW	4750mW
Operating Temperature	-20 ~ +70	-5 ~ +60	-20 ~ +70	-20 ~ +70
Storage Temperature	-30 ~ +80	-20 ~ +70	-30 ~ +80	-30 ~ +80
LCD Controller	N / A	N/A	N/A	N/A
Brightness (nits)	350	250 / 550 / 1000	380	500 / 1000
Contrast Ratio	800:1	500:1	500:1	500:1
Response Time	25ms	25ms	23ms	20ms
Interface	LVDS	RGB / LVDS	RGB	LVDS
T/P	Option	Option	Option	Option

Size	10.4"	12.1"	12.1"	15"
Resolution	1024 × RGB × 768	1024 × RGB × 768	800 × RGB × 600	1024 × RGB × 768
Product Line	AM-1024768T	AM-1024768R	AM-800600T	AM-1024768Q
Display Area	211.2 (H) × 158.4 (V)	245.76 (W) × 184.32 (H)	246.0 (W) × 184.5 (H)	304.128 (W) × 228.096 (H)
Module size (mm)	236.0 (W) × 176.9 (H) × 5.7 (D)	279.0 (W) × 209.0 (H) × 9.0 (T)	276.0 (W) × 209.0 (H) × 9.1 (T)	326.5 (W) × 253.5 (H) × 12 (T)
Display Color	262K / 16.7M	16.7M	262K	16.2M
Backlight Type	LED	LED	LED	LED
Viewing Angle (Up, Down, Left, Right)	75, 75, 75, 75	80, 80, 80, 80	80, 80, 60, 80	80, 80, 80, 80
Power Supply Voltage (LCD)	3.3V	3.3V	3.3V	3.3V
Power consumption	1.2W	3705mW	7731mW	825mW
Operating Temperature	-20 ~ +70	-20 ~ +70	-20 ~ +70	-20 ~ +70
Storage Temperature	-30 ~ +80	-30 ~ +80	-30 ~ +80	-30 ~ +80
LCD Controller	N / A	N/A	N/A	N/A
Brightness (nits)	350	350	300	500
Contrast Ratio	900:1	800:1	800:1	800:1
Response Time	16ms	16ms	30ms	25ms
Interface	LVDS	LVDS	LVDS	LVDS
T/P	Option	Option	Option	Option

Services

Standard LCD module production
Ampire provides all of the standard LCM models that can be found in the market.

Semi-customized LCD module production
Ampire assists the customers to add special features on standard TFT displays and to put them into mass production.

Full-customized LCD module production
Ampire listens to the customers, communicates with them and understand their requirements to make their innovative idea of STN displays from nothing to reality.

LCD backend processing
Ampire is capable of processing the LCD panels from glass cutting, liquid crystal injection to sealing.

OEM
Ampire is qualified by the leaders in LCD manufacturing, such as AUO, CMI and Hannstar, Kyocera to co-work with them in their strategic production planning.

IC Bonding

COB	COF	TCP	COG
Chip On Board	Chip On Film	Tape Carrier Package	Chip On Glass

Custom design flow chart

Customer ▶ Project scope clarification ▼ Engineering analysis ▼ Cost Evaluation ▼ Customer confirmation ▼ Pre-Specification ▼ Customer confirmation ▼ Sampling ▼ Customer system adaptation verification ▼ Certification application assistance ▼ Sample approval ▶ Engineering ▶ Pre production ▶ Mass production

History

2010 P-cap development
2012 Expand size to 15”
2014 New shaping modules

2009
May
Official announcement of interactive touch panel with light sensing
June
Ampire UART system patented
August
OEM For Innolux

1998
May
Ampire was established in 1998
August
The First COF Manufacturer in Taiwan

2000
January
The COF Developing Project sponsored by Taiwan Ministry of Economic affair

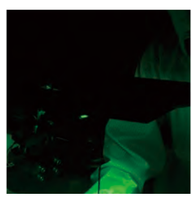
2007
May
OEM For AUO

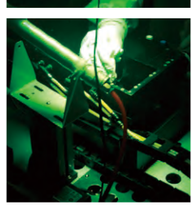
2006
March
OEM For Hannstar

2002
April
Mass Production at Tang Yu LCM Factory (Dong Guan)

2004
June
Mass Production TFT LCM at Tang Yu LCM Factory (Dong Guan)

2003
January
Mass production Color STN module





Quality

1999.03 ISO9002-1994 Certified.
2002.01 ISO ISO9001-2000 Certified.
2003.10 MDL Certified at Tang Yu (Dong Guan) LCM Factory.
2004.02 QS9000-1998 Certified at Tang Yu (Dong Guan) LCM Factory.
2006.04 ISO 14001-2004 Certified.
2007.01 TS16949 Certified at Ampire (Taipei) and Tang Yu (Dong Guan) LCM Factories.
2007.04 ISO 14001-2004 Certified at Tang Yu (Dong Guan) LCM Factory.
2008.03 ISO 9001-2000 Certified at Ampire (Taipei) and Tang Yu (Dong Guan) LCM Factories.
2008.03 UL Certifications (Home Appliance).
2008.10 OHSAS Certified at Tang Yu LCM Factory (Dong Guan).
2010.01 TS16949: 2009 Certified at Tang Yu (Dong Guan) LCM Factory.

About Us

Established in 1998, Ampire is a manufacturer with revolutionary vision and innovative ideas in small and medium size LCD modules for industrial applications.

Starting from TN models, Ampire team never stops acquiring new technologies and working synergistically with every partner. Over the years, Ampire has successufully adapted STN mono display, TFT color display, and lately, Capacitive Touch Panel solutions into the product lineup. With experience and effort, Ampire has sharpened the mastery in customization of LCD modules.

Besides providing a complete lineup of displays, our team also focuses on integrated controls and easy display system solutions. Customers in all markets, especially industrial control, can find practical solutions to adapt STN or TFT into their applications.

Our team does not only develop a piece of LCM for you. We communicate to our customers with enthusiasms and sincerities in developing their applications with right solutions of good quality. We want to assist our customers to do the right thing at the first time. Your experience and satisfaction are our top priorities. In partnership with Ampire, you are one step closer to your goal.