

AT product lineup specially designed for the use in harsh environments requiring robust operating characteristics.

- 6.8G vibration resistance
- Temperature range -40°C to +85°C
- Up to 1500 cd/m<sup>2</sup> high brightness



Size (inch)	Resolution	Model(Mode)	Brightness (cd/m <sup>2</sup> )	Sample release	MP target
7.0	WVGA	AT070MJ11(TN)	1500	-	MP
7.0	WVGA	AT070MP11(SWV)	(1300)	16/4Q	17/1Q
8.0	WVGA	AT080MD11(SWV)	(1000)	17/1Q	17/2Q
10.4	SVGA	AT104SN11(TN)	1200	-	MP
10.4	XGA	AT104XH11(TN)	1500	-	MP



## Brief spec. ; 7.0" Wide VGA Toughness model

### Features

- **Vibration resistant structure (Shock level 6.8G)**
- **Wide Operation Temperature Range (-40~85°C)**
- **LED Lifetime 100,000h (Typ.)**

TYPE NAME		AT070MJ11
Schedule		MP: 15/3Q
Screen Size / Resolution		17.8cm (7.0-inch) / Wide VGA
Active Screen Area Size [mm]		152.4(H) x 91.44(V)
Pixel Number		800(H) x 480(V)
Pixel Pitch [mm]		0.1905(H) x 0.1905(V)
Contrast Ratio		800:1
Brightness [cd/m <sup>2</sup> ]		1500 (IF=110mA)
Viewing Angle (CR>10) [°]		-80~80(H), -80~60(V)
Viewing direction		Higher Contrast ratio: 12 o'clock Less gray scale reversal: 6 o'clock
Colors		262k(6bit/color) / 16.7M(8bit/color)
Color Saturation (vs. NTSC) [%]		50
Natural Color Matrix		Yes
Backlight		LED
Lamp/LED Life [h]		Typ.100,000
Interface		LVDS
Power Consumption [W]		5.6
Power Supply [V]		3.3
Reverse Scan		Available
Module Outline Dimensions [mm]	W	169.8
	H	109.7
	D	8.9
Module Mass [g]		TBD
Operation Temperature Range [°C]		-40~85
Storage Temperature Range [°C]		-40~85
Surface Treatment		Anti-glare

## Brief spec. ; 7.0" WVGA Toughness & Super Wide Viewing Angle, Super High Bright model

### Features

- **Vibration resistant structure (Shock level 6.8G)**
- **Wide Operation Temperature Range (-40~85°C)**
- **Super Wide Viewing Angle (-85~85° H,V)**
- **High Contrast Ratio 1000:1**
- **Super High Bright 1300cd/m<sup>2</sup>**
- **LED Lifetime 100,000h (Typ.)**

TYPE NAME	AT070MP11	
Schedule	CS : '17/ Mar. MP : '17/2Q	
Screen Size / Resolution	17.8cm (7.0-inch) / Wide VGA	
Active Screen Area Size [mm]	152.4(H) x 91.44(V)	
Pixel Number	800(H) x 480(V)	
Pixel Pitch [mm]	0.1905(H) x 0.1905(V)	
Contrast Ratio	1000:1	
Brightness [cd/m <sup>2</sup> ]	1300(IF=140mA)	
Viewing Angle (CR>10) [°]	-85~85(H), -85~85(V)	
Viewing direction	-	
Colors	262k(6bit/color) / 16.7M(8bit/color)	
Color Saturation (vs. NTSC) [%]	50	
Natural Color Matrix	Yes	
Backlight	LED	
LED Life [h]	Typ.100,000	
Interface	LVDS	
Power Consumption [W]	TBD	
Power Supply [V]	3.3	
Reverse Scan	Available	
Module Outline Dimensions [mm]	W	169.8
	H	109.7
	D	8.9
Module Mass [g]	200	
Operation Temperature Range [°C]	-40~85	
Storage Temperature Range [°C]	-40~85	
Surface Treatment	Anti-glare	

## Brief Spec. ; 8.0" WVGA Toughness & Super Wide Viewing Angle, Super High Bright Model

### Features

- **Vibration resistant structure (Shock level 6.8G)**
- **Wide Operation Temperature Range (-40~85 °C)**
- **Super Wide Viewing Angle (-85~85° H,V)**
- **Super High Bright 1000 cd/m<sup>2</sup>**
- **High Contrast Ratio 1000:1**
- **LED Lifetime 100,000h (Typ.)**

TYPE NAME		AT080MD11
Schedule		Sample: '17/2Q , MP: '17/3Q
Screen Size / Resolution		20.3cm (8.0-inch)/ WVGA
Active Screen Area Size [mm]		174.0 (H) x 104.4 (V)
Pixel Number		800 (H) x 480 (V)
Pixel Pitch [mm]		0.2175 (H) x 0.2175 (V)
Contrast Ratio		1000:1
Brightness [cd/m <sup>2</sup> ]		(1000(IF=80mA))
Viewing Angle (CR>10) [ °]		-85~85(H), -85~85(V)
Viewing direction		N/A
Colors		16.7M(8 bit/color)
Color Saturation (vs. NTSC) [%]		50
Backlight		LED
LED Life [h]		Typ.100,000
Interface		LVDS
Power Consumption [W]		TBD
Power Supply [V]		LCD: 3.3
Reverse Scan		Available
Module Outline Dimensions [mm]	W	192.0
	H	122.0
	D	(11.2)
Module Mass [g]		TBD
Operation Temperature Range [°C]		-40~85
Storage Temperature Range [°C]		-40~85
Surface Treatment		Anti-glare

## Brief spec. ; 10.4"SVGA Toughness Model

### Features

- Vibration resistant structure (Shock level 6.8G)
- Wide Operation Temperature Range (-40~85°C)
- LED Lifetime 100,000h (Typ.)

TYPE NAME		AT104SN11
Schedule		MP: '16/2Q
Screen Size / Resolution		26cm (10.4-inch) / SVGA
Active Screen Area Size [mm]		211.2(H) x 158.4(V)
Pixel Number		800(H) x 600(V)
Pixel Pitch [mm]		0.264 (H) x 0.264 (V)
Contrast Ratio		700:1
Brightness [cd/m <sup>2</sup> ]		1500 (IF=130mA)
Viewing Angle (CR>10) [°]		-80~80(H), -80~80(V)
Viewing direction		Higher Contrast ratio: 6 o'clock Less gray scale reversal: 12 o'clock
Colors		262k(6bit/color) / 16.7M(8bit/color)
Color Saturation (vs. NTSC) [%]		50
Natural Color Matrix		Yes
Backlight		LED
Lamp/LED Life [h]		Typ.100,000
Interface		LVDS
Power Consumption [W]		LCD: TBD, B/L: TBD
Power Supply [V]		3.3
Reverse Scan		Available
Module Outline Dimensions [mm]	W	230.0
	H	180.2
	D	11.0
Module Mass [g]		(600)
Operation Temperature Range [°C]		-40~85
Storage Temperature Range [°C]		-40~85
Surface Treatment		Anti-glare

## Brief spec. ; 10.4"XGA Toughness Model

### Features

- **Vibration resistant structure (Shock level 6.8G)**
- **Wide Operation Temperature Range (-40~85°C)**
- **LED Lifetime 100,000h (Typ.)**

TYPE NAME		AT104XH11
Schedule		MP: '15/4Q
Screen Size / Resolution		26cm (10.4-inch) / XGA
Active Screen Area Size [mm]		210.4(H) x 157.8(V)
Pixel Number		1024(H) x 768(V)
Pixel Pitch [mm]		0.2055(H) x 0.2055(V)
Contrast Ratio		700:1
Brightness [cd/m <sup>2</sup> ]		1000 (IF=140mA)
Viewing Angle (CR>10) [°]		-80~80(H), -80~80(V)
Viewing direction		Higher Contrast ratio: 6 o'clock Less gray scale reversal: 12 o'clock
Colors		262k(6bit/color) / 16.7M(8bit/color)
Color Saturation (vs. NTSC) [%]		40
Natural Color Matrix		Yes
Backlight		LED
Lamp/LED Life [h]		Typ.100,000
Interface		LVDS
Power Consumption [W]		LCD: 1.1, B/L: TBD
Power Supply [V]		3.3
Reverse Scan		Available
Module Outline Dimensions [mm]	W	230.0
	H	180.2
	D	(11.0)
Module Mass [g]		(600)
Operation Temperature Range [°C]		-40~85
Storage Temperature Range [°C]		-40~85
Surface Treatment		Anti-glare