

GDN-D35MP4-GTT035KDH03

Good Display Specifications

Type: Model No. 3.5inch TFT LCD module
GDN-D35MP4-GTT035KDH03
3.5inch LCD with 320 x RGB x 240 dots

Description:

Play Video/Music/Picture from SD card
RoHS Compliant

Prepared: Checked: Approved: Issue Date: Xiaoli Lan Moon Wu Boris Jen 2014.01.07



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1. Notice: Important Safety Instructions

- The nominal voltage of DC input to the A/D board is 12V, Please note that your AC/DC adapter's output plug need to match the DC input jack, the diameter of the jack is 5.5 mm.
- Don't put the A/D board on the back of LCD display or other metallic conductor without insulation in case of being burnt for short.
- Before connecting these input/output ports, Video port, it is strongly recommended that your turn off the A/D board and remove the DC 12V plug from the DC input jack.
- Don't put the A/D board into an airtight package. When it works, it will produce a certain heat.
- When assembling it, please use a suitable force; don't distort the PCB and other components.

CAUTION: Information in this document is subject to change without notice. Please contact us if you have any questions or suggestions

2. Technical Specifications

2.1 Features:

- GDN-D35MP4-GTT035KDH03 TFT LCD module includes: Decoder board DN-35MP4, 3.5" Digital TFT LCD GTT035KDH03,Keypad board, Power cable
- Music Play: Support MP3、WMA、DRM WMA、OGG、APE、FLAC、WAV、AAC format
- Picture Review: Support JPEG、BMP、GIF、TIF、PNG format
- Video Play: Support Full format (RM、RMVB、AVI、MKV、WMV、VOB、MOV、FLV、ASF、DAT、MP4、 3GP、MPG、MPEG..etc) HD 720P Video play.
- DC/ DC & LED Backlight Driver & Video Decoder All In One
- OSD controls: Allow on-screen adjustments and Choices of all kinds Playback Parameters and Display Contents.,
- This product is RoHS compliant

2.2 Applications:

- Advisement Player
- Other Electronic Equipments

3. General Specifications:

Item	Specifications	Unit
Screen size	3.5 (diagonal)	inch
Display ratio	4:3	
Resolution	320×(RGB)×240	
Backlight	LED	
Brightness	300±50	cd/m ²
LED life time	30000(Typ.)	hr
View angle	40/60/60 (U/D/L/R)	0
Input/output interface	SD/MMC/SDHC/MS Card	
input/output intenace	USB port for up-grade	
LCD Display dimension	76.9(W)×63.9(H)×3.2(D)	mm
LCD Active area	70.08(H)×52.56(V)	mm
A/D board dimension	68.0 (W)×55.0(H) ×9.2(D)	mm
Operation voltage (Power Ripple < 0.3VP-P)	DC12.0(Typ.) (Min.9.0, Max.15.0)	V
Input current(DC12V)	DC110±10	mA
Power consumption	1.32 (Typ.)	W
Start time	3.0	S
Operation temperature	0 to 60	°C
Storage temperature	-20 to 70	°C
Humidity	5~95	%RH



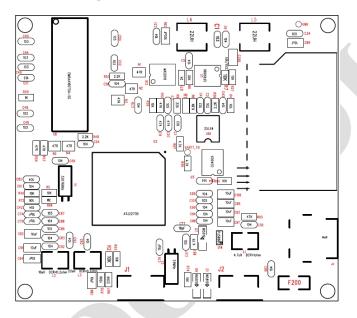
1.0

4.1 Real Picture of LCD and Board





4.2 Silk-screen Figure of Board



The interface definition of the A/D board 5

5.1 J1 interface definition(1.25mm):

PIN No.	Symbol	I/O	Description	Remark
1	SAR	I	Keypad input	
2	GND	-	Ground	
3	LED	I	Ground	

5.2 J2 interface definition(1.25mm):

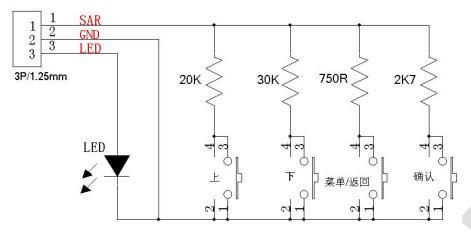
PIN No.	Symbol	I/O	Description	Remark
1	+12V	I	DC power supply input	+9V~+15V
2	GND	-	Ground	

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6. Keypad Diagram and Function Instructions

6.1 Keypad Diagram:



6.2 Keypad Definition:



UP DOWN MENU ON/OFF SOURCE

UP	Next / Plus
DOWN	Former / Minus
MENU	Menu / Return
POWER	Player / Pause / Enter
SOURCE	
EXIT	

6.3 OSD Menu introduction:

Main OSD menu contains the following submenu: Video , Music , Photo , Setting

Video		Ø		
Music	-	-	a	
Photo	Setting	Photo	Music	Video
Setting				

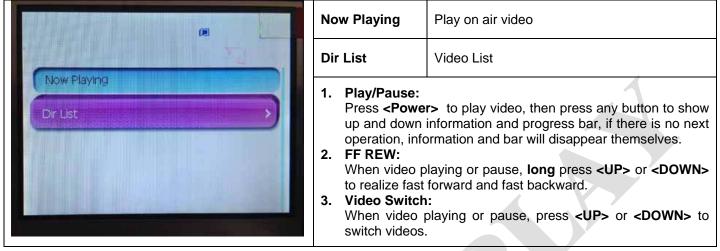
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REV NO

Video

Menu: In the Main interface, select < Video> to enter into menu:



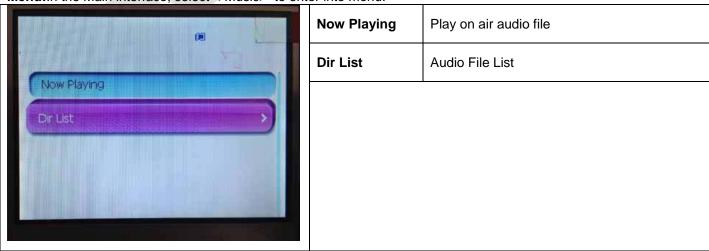
Submenu: In the playing interface, long press **<Menu>** to enter into submenu, There are Playback Mode、Scan Speed、Screen Size、Resume、Delete、Track、Subtitle and Information



Playback Mode	Sequence, Repeat One, Repeat All, Shuffle or Shuffle + Repeat.
Scan Speed	Press <up></up> or <down></down> to adjust from 1-4
Screen Size	Full Screen, Original Size, Scale
Resume	On of Off Rsume function
Delete	Delete present file
Track	Support multiple Track Switch
Subtitle	Built-in subtitle or Plug-in subtitle or Close it
Information	Relevant information of playing file.

Music

Menu:In the Main interface, select < Music> to enter into menu:





REV NO

Submenu:

In the playing interface, short press **<Menu>** to enter into menu, and long press **<Menu>** to enter into submenu. There are Select EQ、Play Mode、Screen Size、AB Repeat、Delete、Advanced、EQ Settings、Information and Return music playing.

	Select EQ	Normal, Pop, Classic, Soft, Jazz, Rocketc
	Play Mode	Sequence, Repeat One, Repeat All, Shuffle or Shuffle + Repeat.
	Screen Size	Spectrum, Lyric
容易受伤的女人 1/2 and	AB Repeat	Symbol "A" with highlight when Press +/-, means waiting to confirm point "A", and it'll be confirmed when press +/- again and waiting to confirm point "B". Symbol "A-B" both with highlight when third press +/-, means point "B" is confirmed and start to repeat. And repeat will be canceled when forth press +/
Screen Size	Delete	Delete present audio file
Delete 00:02:21 Advanced D:04:19	Advanced	Repeat times: Press +/- to adjust from 1-10 or ∞ Repeat interval: Press +/- to adjust from 1-7 s Scan speed: x2, x4, x8, x16 or x32
	EQ Settings	User EQ: Long press <menu></menu> to choose different bar and change no. through +/ User SRS: Same as < User EQ>
	Information	Relevant information of playing file.

Photo

Menu: In the Main interface, select < Photo> to enter into menu:

1) Play/Pause:

Press **<Power>** to switch from manual or auto play, when manual playing, press +/- to browse former or next pictures

2) Thumbnail Browsing Mode: Press +/- to move from left to right, or Long press +/- to move from up and down.

Submenu: When manual browse some picture, long press **<Menu>** to enter into submenu. There are Rotate, Zoom, Slide Interval, Slide Effect, Delete, Advanced and Information.

			Rotate	Rotate picture to 90/180/270 degree. (Note1)
	Rotate		Zoom	Press <power></power> to Zoom in and out the pictures. After press <menu></menu> to exit, then press + /- to browse picture from up to down. And press <power></power> to browse picture from left to right. At last, long press <menu></menu> to exit from thumbnail mode. (Note1)
(eeffeel	Zoom		Slide Interval	See menu description
1910-	Slide Interval Slide Effect	And BRIDE	Slide Effect	See menu description
-	Delete	A REAL PROPERTY OF	Delete	Delete present photo file
	Janes made and		Information	Relevant information of playing photo

Note1: GIF picture is not valid on "Rotate" and "Zoom" function.



REV NO

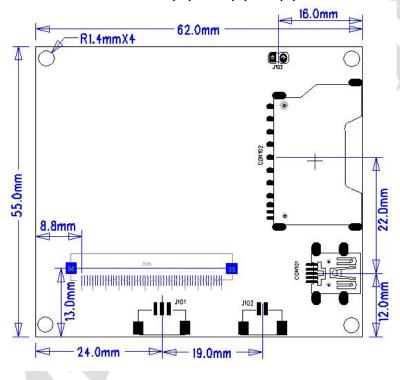
Setting

Menu:In the Main interface, select < Setting> to enter into menu:

	Display	Backlight: Off, 5s, 10s, 20s, 30s, 60s, 300s When not on play mode, lcd will not close when backlight is off, and if backlight is not off, then backlight will be off when no press operating during the backlight time.
Display >	Language	Chinese or English
Language Advanced	Advanced	 Information: User Name, Firmware Version, Card Capacityetc. Effect Setting Off: Fly In, Cube, Rotate, Off. Format Card: Yes or No Reset Default Settings: Yes or No
Volume	Volume	Press +/- to adjust from 0-40

7. PCB Structure:

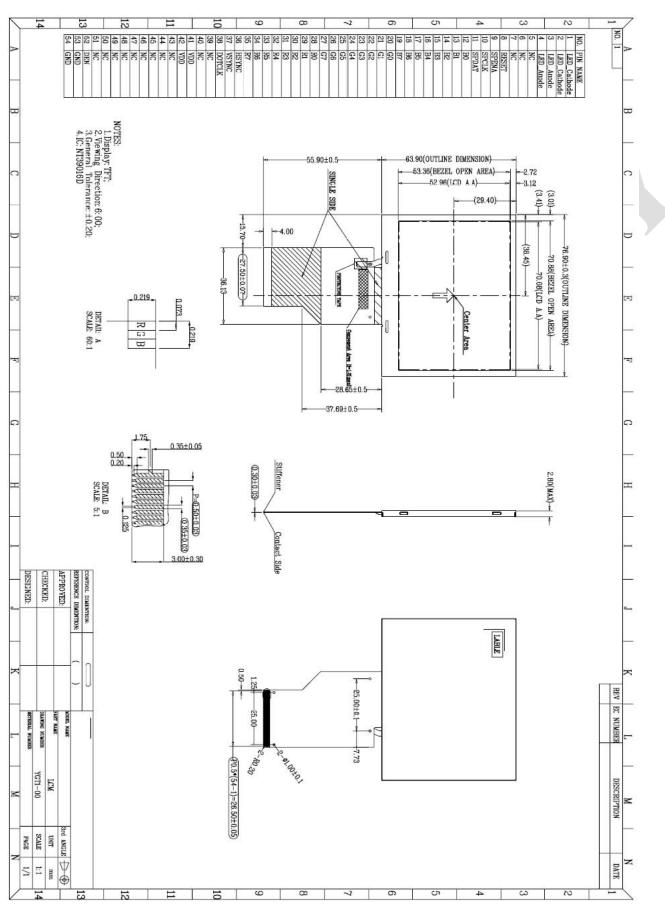
Outline Dimension: 68.0 (W)×55.0 (H) ×9.2(D)



8. TFT LCD Panel Mechanical Drawing:



GDN-D35MP4-GTT035KDH03

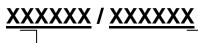




9. Product Label



Label Dimension : 48.0X12.0mm



__ Production Date (Y/M/D)

__ Delivery Date (Y/M/D)

10. Packing Information

Box Information	Box Tare Weight: 0.06Kg Package Dimension:23.0x14.0x4.0cm	0.1Kg 24.0x17.0x9.0cm	1.5Kg 52.0x27.0x28.0cm
LCD Modules Capacity	2sets	4sets	56sets
Remark: The above pack for you on your quality of	ing information is just for your referen rdered.	ce, and we will choice the	e suitable outer carton

11. Precaution

For the sake of normal usage of this product, preventing incident from the electric shock or fire etc., please follow the precaution below instructions:

- 1. Before operating this appliance, read these instructions, keep these instructions, heed all warnings, and follow these instructions.
- 2. The DC (Direct current) supply of appliance is from the indicated AC (Alternating Current)/DC adapter. The AC voltage and AC frequencies C should be in of accord with the description of its on Metal card, the power adapter should be away from the hotness, being put in the well ventilated place.
- 3. AC power electric outlet and the AC power line of the AC/DC adaptor must be noticed to connect a ground well, and have an enough power supply if needed.
- 4. Input electric voltage of DC supply of our board is 12V/5V, the error margin is not over and above +/- 1V/, The value of the electric current changes for the different LCD and that whether to have audio amplifier or not etc. Pay attention to connect well between 12V/5V DC power electric outlet and the power electric outlets of the board.
- 5. Do not place the board inside of the Hull or Box that do not transmit heats, with the environment the airiness spreads well, Do not let the sunshine contact the board or other heat sources close to it, The heat sources, such as radiators, stoves, or their apparatus that produce heat.
- 6. Pay attention to prevent it from contacting with wetness or the dust, in order to protect the electric circuit from decaying.
- 7. While assembling, pay attention to reserve the certain space to keep the air spreads well, while it can prevent the conductor (for the fixed sheet iron of the of the controller board and the inverter) from contacting with the units of electricity board, from happening the short circuit with the board. (knothole install position bore etc. excepted).



- 8. While assembling, pay attention to make sure that the controller board is prevented from not being curved because of the additional pressure.
- 9. While assembling, notice that the controller board is in right connection with inverter, LCD, OSD keypad, choosing the right LCD work electric voltage(over low the display will not right, LCD may be burnt under over the high work voltage), The power is ON after all checking is well.
- 10. The circuit signal on the Keypad board, the infrared acceptor and the inverter must pass directly the electric cable to connect to the IC on the board, the attention is that avoiding short circuit and the damages from the static electricity on the hand ESD.
- 11. All connectors of output or input should be operated under the situation of cutting the power (pull out to put to deal with contact).
- 12. This product is applicable to common business usage and domestic usage, if it is applied into the environment with high temperature (such as in outdoor), high humidity, the strong vibration (carried in car), strong electromagnetism radiation, please contact our sales personnel.
 - a) Please pull out the power supply if you do not use it in a long time.

12. Trouble Shooting

If experiencing trouble with the module, or it fails to operate correctly, please refer to the following instructions before returning to us for repairs.

Condition	Check Point
1. The picture does not appear	Check to see that all the I/O and power cables is firmly seated in the socket. Check if the brightness control is at the appropriate position, not at the minimum.
2. The screen is not synchronized	Check if the I/O signal cable is firmly seated in the socket. Check if the output level matches the input level. Make sure the signal timings of the computer system are within the specification of the module.
3. The screen is too bright (too dark).	Check if the brightness or contrast control is at the appropriate position, not at the Maximum (Minimum).
4. The Screen is shaking or waving	Press the Auto adjustment control to adjust. Moving all objects which emit a magnetic field such as motor or transformer, away from the module. Check if the specific voltage is applied. Check if the signal timing of the computer system is within the specification of module.

If you are unable to correct the fault by using this chart, stop using your module and contact us.