FRC BOARD_____

Specifications

HI-FRC 4KN

Approval

Rev. 0

Issue Date.

2015. 12. 23

Doc No.

HI-FRC 4KN_01

Note | Specification is subject to change without notice. Consequently it is better to contact to our company before proceeding with the design of your product incorporating this board

Prepared	Checked I	CheckedⅡ	Approved
	$\overline{\times}$	7	ft.
			YH. HAN



Rev. 0

HI-FRC 4KN

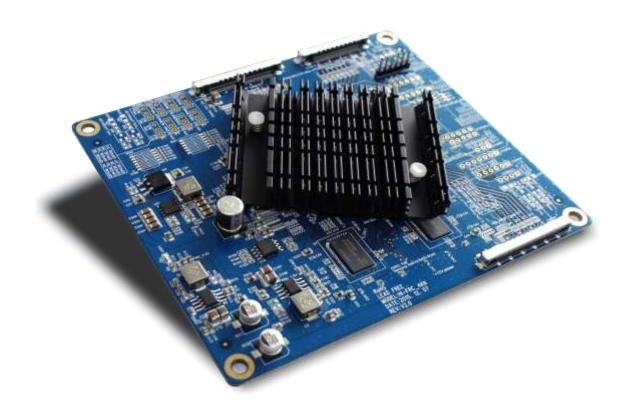
Revision History

Rev.	ECN No.	Description of Changes	Date	Prepared
0		Initial Release	2015. 12. 23	YH. HAN



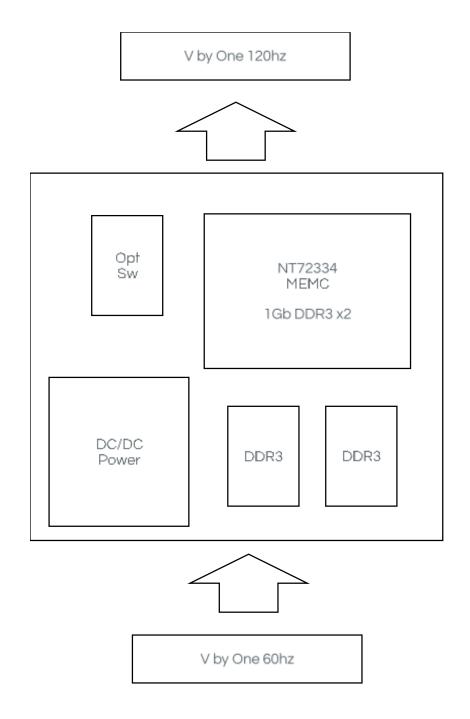
1. General Specification

No.	Item	Description		
1	Model Name	HI-FRC 4KN (NOVATEK NT72334TBG)		
2	LCD Module	V by One 120hz – 4K2K		
3	Input	V by One 60hz		
4	Power	Supply Voltage	12Vdc	
4 Consumption	Power	-	Board Only	
E	5 Signal Connector	V by One out	3840x2160 120hz (51p, 41p)	
5		V by One in	3840x2160 60hz (51p)	
6	Board Size	W x H x D(mm) 135 x 115 x 12		





2. FUNCTIONAL BLOCK DIAGRAM





3. CONNECTOR, PINOUT & JUMPERS

The various connectors are:

CONN11 V by One 120hz OUTPUT CONN12 V by One 120hz OUTPUT



CONN5 V by One 60hz OUTPUT

Summary:

Reference	Item	Description	Туре	Manufacture
CONN11	Connector	V by One 120hz output	TF05-51S-0.5SH	-
CONN12	Connector	V by One 120hz output	TF05-41S-0.5SH	-
CONN5	Connector	V by One 60hz input	TF05-51S-0.5SH	-



CONN5: V BY ONE Connector (51p) Output

Pin No.	Symbol	Description
51	GND	Ground
50	VBY7P	V BY ONE 7 +
49	VBY7N	V BY ONE 7 -
48	GND	Ground
47	VBY6P	V BY ONE 6 +
46	VBY6N	V BY ONE 6 -
45	GND	Ground
44	VBY5P	V BY ONE 5 +
43	VBY5N	V BY ONE 5 -
42	GND	Ground
41	VBY4P	V BY ONE 4 +
40	VBY4N	V BY ONE 4 -
39	GND	Ground
38	VBY3P	V BY ONE 3 +
37	VBY3N	V BY ONE 3 -
36	GND	Ground
35	VBY2P	V BY ONE 2 +
34	VBY2N	V BY ONE 2 -
33	GND	Ground
32	VBY1P	V BY ONE 1 +
31	VBY1N	V BY ONE 1 -
30	GND	Ground
29	VBY0P	V BY ONE 0 +
28	VBYON	V BY ONE 0 -
27	GND	Ground
26	LOCKN TX	Lock detect
25	HTPDN TX	Hot plug detect
24	GND	Ground
23	AGP or NSB	H or NC=AGP, L=NSB(No signal Black) (OPT)
22	L-DIM Enable	H=Enable, L or NC=Disable (OPT)
21	Bit SEL	H or NC=10bit, L=8bit
20	N.C	No Connection
19	N.C	No Connection
18	N.C	No Connection
17	N.C	No Connection
16	D_FOMAT1	INPUT DATA FORMAT [1:0]
15	D_FOMAT0	00=MODE1, 01=MODE2, 10=MODE3, 11=MODE4
14	GND	Ground
12,13	GND	Ground
10,11	GND	Ground
9	PANEL VCC / NC	Opt
7,8	PANEL VCC / NC	Opt
5,6	PANEL VCC / NC	Opt
3,4	PANEL VCC / NC	Opt
1,2	PANEL VCC / NC	Opt



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CONN12: V BY ONE Connector (41p) Output

Pin No.	Symbol	Description
41,40	N.C	No Connection
39,38	N.C	No Connection
37,36	N.C	No Connection
35,34	N.C	No Connection
33,32	N.C	No Connection
31,30	N.C	No Connection
29,28	N.C	No Connection
27,26	N.C	No Connection
25	GND	Ground
24	VBY15P	V BY ONE 15 +
23	VBY15N	V BY ONE 15 -
22	GND	Ground
21	VBY14P	V BY ONE 14 +
20	VBY14N	V BY ONE 14 -
19	GND	Ground
18	VBY13P	V BY ONE 13 +
17	VBY13N	V BY ONE 13 -
16	GND	Ground
15	VBY12P	V BY ONE 12 +
14	VBY12N	V BY ONE 12 -
13	GND	Ground
12	VBY11P	V BY ONE 11 +
11	VBY11N	V BY ONE 11 -
10	GND	Ground
9	VBY10P	V BY ONE 10 +
8	VBY10N	V BY ONE 10 -
7	GND	Ground
6	VBY9P	V BY ONE 9 +
5	VBY9N	V BY ONE 9 -
4	GND	Ground
3	VBY8P	V BY ONE 8 +
2	VBY8N	V BY ONE 8 -
1	GND	Ground



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CON11: V BY ONE Connector (51p) Input

Pin No.	Symbol	Description
51	GND	Ground
50	VBY7P	V BY ONE 7 +
49	VBY7N	V BY ONE 7 -
48	GND	Ground
47	VBY6P	V BY ONE 6 +
46	VBY6N	V BY ONE 6 -
45	GND	Ground
44	VBY5P	V BY ONE 5 +
43	VBY5N	V BY ONE 5 -
42	GND	Ground
41	VBY4P	V BY ONE 4 +
40	VBY4N	V BY ONE 4 -
39	GND	Ground
38	VBY3P	V BY ONE 3 +
37	VBY3N	V BY ONE 3 -
36	GND	Ground
35	VBY2P	V BY ONE 2 +
34	VBY2N	V BY ONE 2 -
33	GND	Ground
32	VBY1P	V BY ONE 1 +
31	VBY1N	V BY ONE 1 -
30	GND	Ground
29	VBY0P	V BY ONE 0 +
28	VBY0N	V BY ONE 0 -
27	GND	Ground
26	LOCKNRX	Lock detect
25	HTPDN RX	Hot plug detect
23,24	GND	Ground
12,22	N.C	No Connection
10,11	GND	Ground
9	N.C	No Connection
7,8	Main Power Input	12V Power
5,6	Main Power Input	12V Power
3,4	Main Power Input	12V Power
1,2	Main Power Input	12V Power



4. CONTROLLER DIMENSIONS

