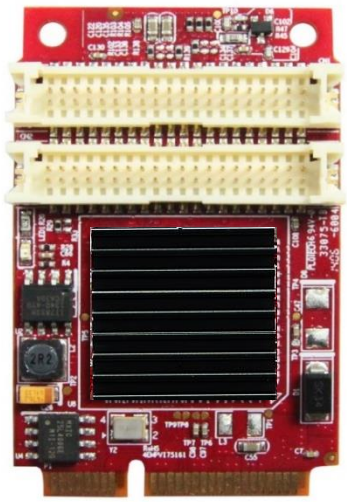
EXTENDED INTELLIGENCE

I/O MODULES



EMPV-1201

mPCIe to Dual VGA & HDMI (or DVI) Module

HIGHLIGHT FEATURES

- VGA output up to 1920 x 1080, up to 75Hz vertical rate
- HDMI up to 1080P, Ultra low power consumption
- Allows for 90º, 180º, and 270º rotation of on-screen images
- DVI-D single link up to 1080P
- 30μ" golden finger, 3-year warranty
- Industrial design. Manufactured in Innodisk Taiwan

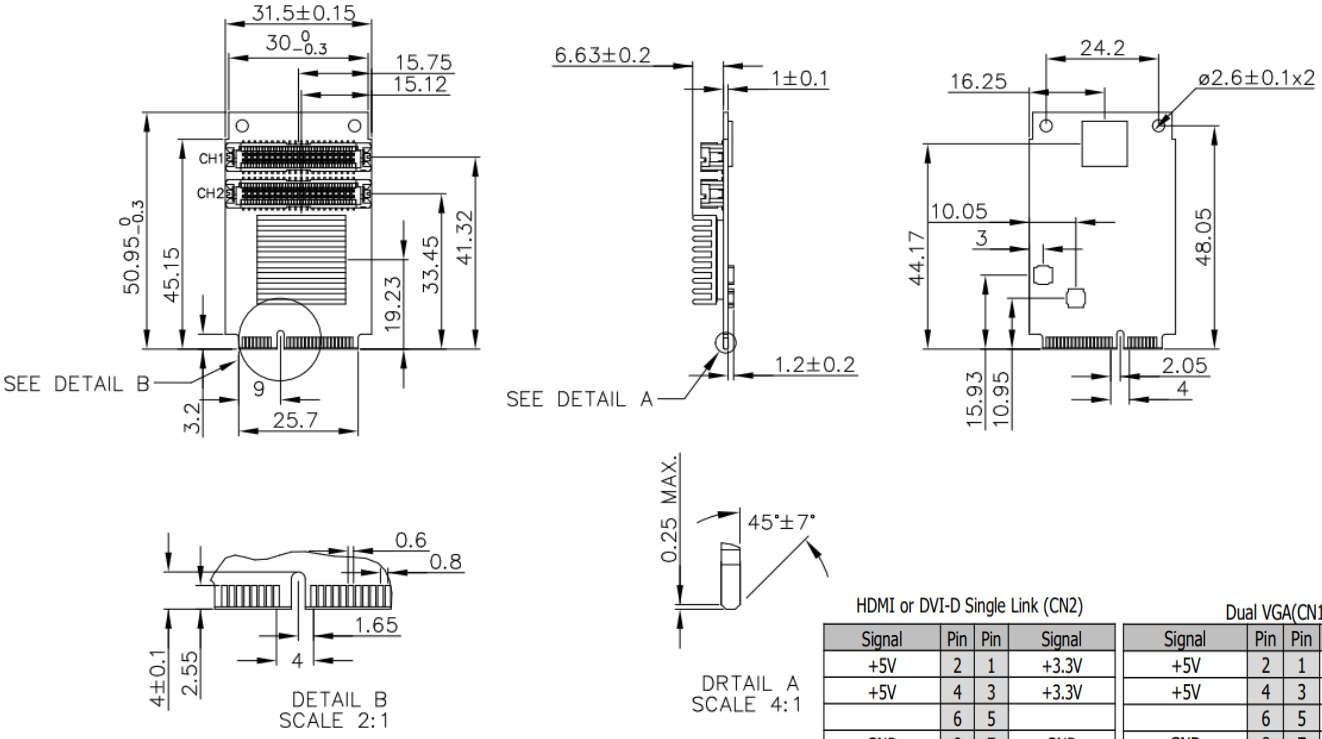
SPECIFICATIONS

Model Name	EMPV-1201
Module Type	mPCIe to Dual VGA & HDMI (or DVI) Module
Form Factor	mPCIe
Function	Display
Input I/F	PCI Express 1.0 x1
Output I/F	2 x VGA 1 x HDMI 1 x DVI-D Single Link (Alternative)
Output Port	2
Output Connector	40-pin 1.25mm (40DP-1.25)
Max. Power Consumption	1.98W(3.3V, 600mA)
Dimension (W x L x H/mm)	50.95 x 31.5 x 7
Temperature	Operation : S/T 0° ~ 70°C (Ta) Storage : -55°C ~ 95°C (Ta)
Vibration	5G@[7~2000Hz]
Shock	50G@0.5ms
OS Support	Windows : XP (32 bit), 7 / 8 / 8.1 / 10 (32 / 64 bit), and above version Linux : Ubuntu 12.04 ~ 16.04 (32 / 64bit), Fedora 17 ~ 21(32 / 64bit), CentOS / Redhat 6.5 (32 / 64bit) ~ 7.2 (64bit), up to Kernel 4.15
Warranty	3 Years
Notes	• Different CN2 cable for HDMI or DVI-D (Alternative). • VBIOS : Default support Legacy BIOS and UEFI.

ORDER INFO.

P/N	Description
EMPV-1201-C1	mPCIe to Dual VGA & HDMI (DVI-D Single Link) Module / Standard Temperature
7W9000000081	30cm Dual VGA Cable
7W9000000020	30cm HDMI Cable

MECHANICAL DRAWING



HDMI or DVI-D Single Link (CN2)

Signal	Pin	Pin	Signal
+5V	2	1	+3.3V
+5V	4	3	+3.3V
	6	5	
GND	8	7	GND
TMDS_D0+	10	9	TMDS_D1+
TMDS_D0-	12	11	TMDS_D1-
GND	14	13	GND
TMDS_D2+	16	15	
TMDS_D2-	18	17	
GND	20	19	GND
	22	21	
	24	23	
GND	26	25	GND
	28	27	DDC_SCL
	30	29	DDC_SDA
GND	32	31	GND
TMDS_CK+	34	33	CEC
TMDS_CK-	36	35	HPD
GND	38	37	GND
	40	39	

Dual VGA(CN1)

Signal	Pin	Pin	Signal
+5V	2	1	3.3V
+5V	4	3	3.3V
	6	5	
GND	8	7	GND
R_1	10	9	B_1
G_1	12	11	
GND	14	13	GND
H_Sync_1	16	15	DDC_SCL_1
V_Sync_1	18	17	DDC_SDA_1
GND	20	19	GND
R_0	22	21	B_0
G_0	24	23	
GND	26	25	GND
H_Sync_0	28	27	DDC_SCL_0
V_Sync_0	30	29	DDC_SDA_0
GND	32	31	GND
	34	33	
	36	35	
GND	38	37	GND
	40	39	

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