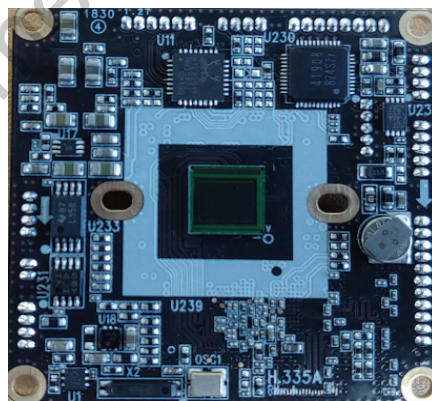


SPECIFICATIONS

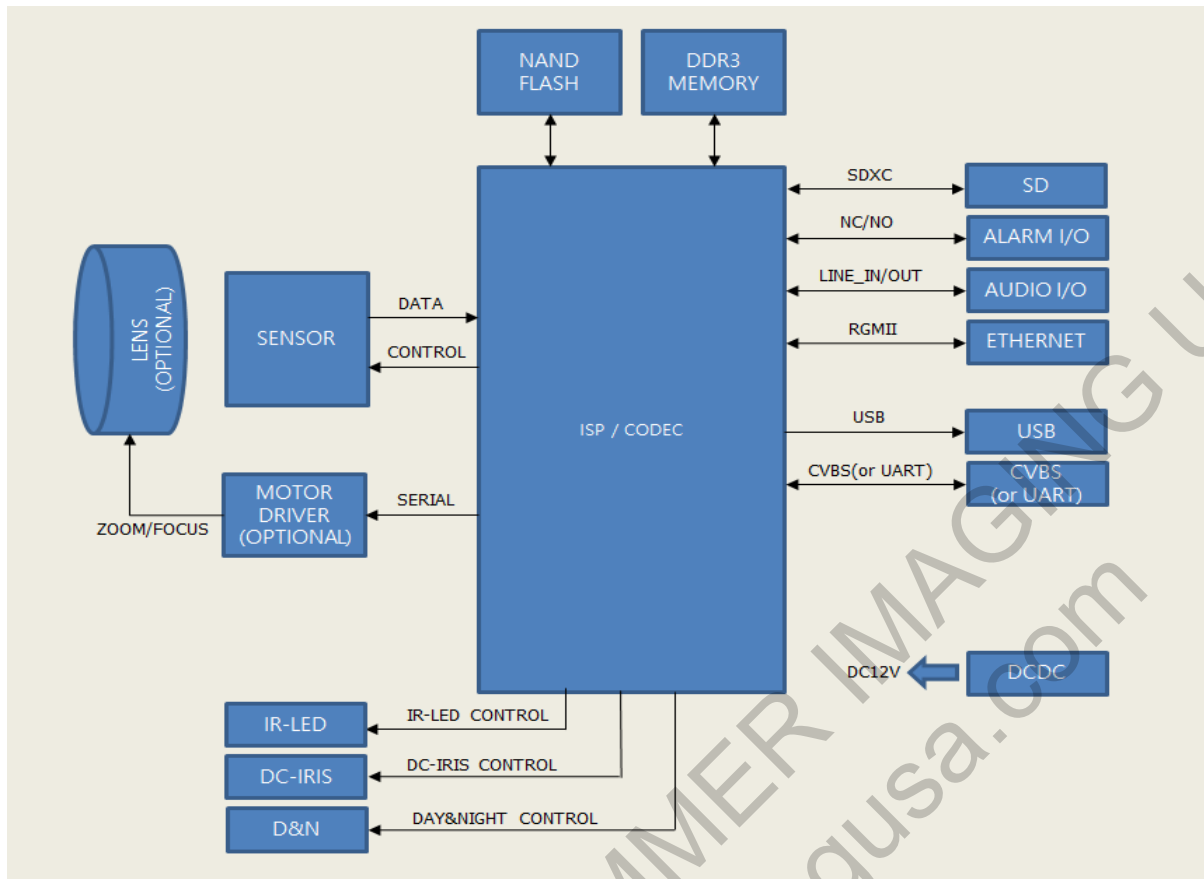


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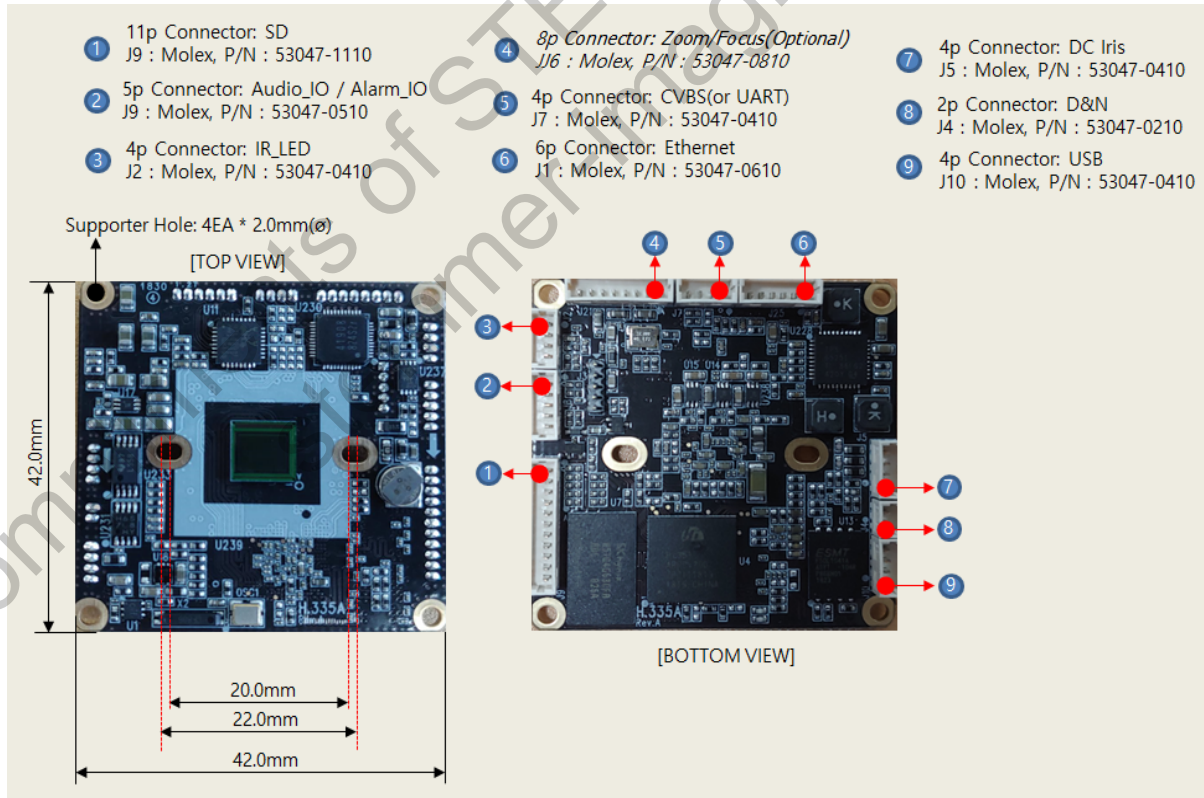
IMX335LQN



1. BLOCK DIAGRAM



2. MODULE DIMENSION



3. CONNECTOR SPECIFICATIONS

J4 : DAY & NIGHT, Molex P/N : 53047-0210		
Pin No.	Pin Name	Description
1	Motor -	Night Mode : Active Low
2	Motor +	Day Mode : Active High

J5 : DC IRIS, Molex P/N : 53047-0410		
Pin No.	Pin Name	Description
1	Drive -	Normally connect to GND
2	Drive +	Iris motor drive
3	Control +	Iris motor control +
4	Control -	Iris motor control -

J2 : IR_LED, Molex P/N : 53047-0310		
Pin No.	Pin Name	Description
1	DC +12V	DC +12V Power output
2	IR_LED_INPUT	IR_LED CDS signal input from IR board
3	GND	GND
4	IR_LED ON/OFF OUTPUT	IR_LED_On/Off TTL signal output to IR board

J1 : Power & Network, Molex P/N : 53047-0610		
Pin No.	Pin Name	Description
1	+12V	DC +12V input
2	PHY_TX+	Ethernet TX+ signal output
3	PHY_TX-	Ethernet TX- signal output
4	PHY_RX+	Ethernet RX+ signal input
5	PHY_RX-	Ethernet RX- signal input
6	GND	GND

J9 : SD, Molex P/N : 53047-1110		
Pin No.	Pin Name	Description
1	DAT2	SD data2
2	DAT3	SD data3
3	CMD	Command signal
4	PWR	Power +3.3V
5	CLK	Clock signal
6	GND	GND



7	DAT0	SD data0
8	DAT1	SD data1
9	CD	Card Detect signal
10	WP	Write Protection signal
11	FACTORY SWITCH	Factory reset signal input signal

J8 : AUDIO/ALARM, Molex P/N : 53047-0510

Pin No.	Pin Name	Description
1	AUDIO_IN	Audio Line_In signal
2	AUDIO_OUT	Audio Line_Out signal
3	GND	GND
4	ALARM_IN	Alarm In signal
5	ALARM_OUT	Alarm Out signal

J10 : USB, Molex P/N : 53047-0410

Pin No.	Pin Name	Description
1	VSUB	USB power output DC5V
2	USB_DM	USB data -
3	USB_DP	USB data +
4	GND	GND

J7 : Not supported Molex P/N : 53047-0410

Pin No.	Pin Name	Description
1		
2		
3		
4		

4. MODULE SPECIFICATIONS

IMAGE	
Image Sensor	Sony IMX335-LQN, 1/2.8" 5.69Megapixel RGB Bayer Array CMOS Sensor
Number of Effective Pixels	2704(H) x 2104(V) approx. 5.69M pixels
Scanning Mode	Progressive Scan
CAMERA	
High Dynamic Range	DOL HDR
Day and Night Mode	Automatic, Day, Night
Noise Reduction	2D-NR, 3D-NR
Auto Exposure Mode	Automatic (Priority: Frame rate/Low noise), Manual



Shutter Speed Control	Automatic: Min. 1/135,000 sec ~ Max. 1/60 sec Manual: Min. 1/10,000 sec ~ Max. 1/10 sec
Gain Control	Automatic: Min. 1.2dB ~ Max. 54dB Manual: Min. 1.2dB ~ Max. 54dB, Default 1.2dB
Auto White Balance Mode	ATW-Indoor/Outdoor, Shade, Clear sky, Fluorescent light, Light bulb, Flame, Manual
Digital Zoom	16x
On Screen Display	On/Off
Back Light Compensation	On/Off
High Light Compensation	On/Off
Image Effect	Mirror, Flip
Privacy Mask	Max.8 Area Selection
Tamper	On/Off
Video Motion Detection	Max.4 Area Selection
Corridor Format	90°/270°(no digital zoom available)
Defog	On/Off
Lens Distortion Compensation	On/Off
Digital Image Stabilization	On/Off
Video Content Analysis	Line Cross / Field Intrusion / Appear / Disappear
NETWORK	
Video Compression	H.265 (Main profile) H.265+ Smart profile, H.264+ Smart profile H.264(High, Main, Base line profile), MJPEG
Video input 1	2592x1520 (16:9) 4 MP
Video Resolutions with video input 1	2592x1520, 2560x1440 (Quad HD), 1920x1080(Full-HD),1600x900, 1280x720(HD), 960x540, 640x360, 320x180
Video input 2	2592x1944 (4:3) 5 MP
Video Resolutions with video input 2	2592x1944, 2048x1536, 1920x1440, 1600x1200, 1280x960, 800x600, 640x480x 320x240
Video Frame Rate	1 fps up to 30fps @2592x1944p (max), see above
Video Streaming	Simultaneously H.265 and MJPEG (Multi Streaming) or Simultaneously H.264 and MJPEG (Multi Streaming) Independent Frame Rate and Bandwidth Control, VBR/CBR Mode
Audio Streaming	Two way(G.711)
FTP Uploading	MJPEG Still Image
Event In	Onboot/Trigger/Network Loss/Tampering/Motion
Event Out Notification	E-mail, FTP
Login Authority	Administrator, Operator, Guest
Event Buffering	FTP : Pre/Post Event Time: 0~30sec, FPS: 1~2 fps
Manual Trigger	Still Image Capture
Security	Multi User Authority, IP Filtering, HTTPS
Network Time Sync	Synchronize Computer/NTP Server, Manual



Software Reset	Restart, Reset, Factory Default
Auto Recovery	Backup, Restore
Remote Upgrade	Using Web Browser
Protocols	TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf
Client Software	Built-In Web, ONVIF Compatible 3rd Party VMS
Max. User Connection	10 Users
SDK Support	API, ONVIF Profile S Compliant
EXTERNAL IN/OUT	
Ethernet Tx/Rx	RJ-45(10/100Base-T)
IR_LED Control	IR_LED Control On/Off
Day & Night Control	IR_Cut_Filter Exchange
Iris Control	DC-Iris, Fixed
Alarm Control	Alarm-In 1/Alarm-Out 1
SD Card	SDHC/SDXC
Audio	Line-In/Line-Out
USB	USB 2.0
OPERATION ENVIRONMENTS	
Operating Humidity	0~90% (non-condensing)
Operating Temperature	0°C~ +50°C
Power Supply	DC12V
Power Consumption	4W(without IR_LED)
Dimension	42.0(W) x 42.0(D) x 7.3(H)mm
Weight	15g

