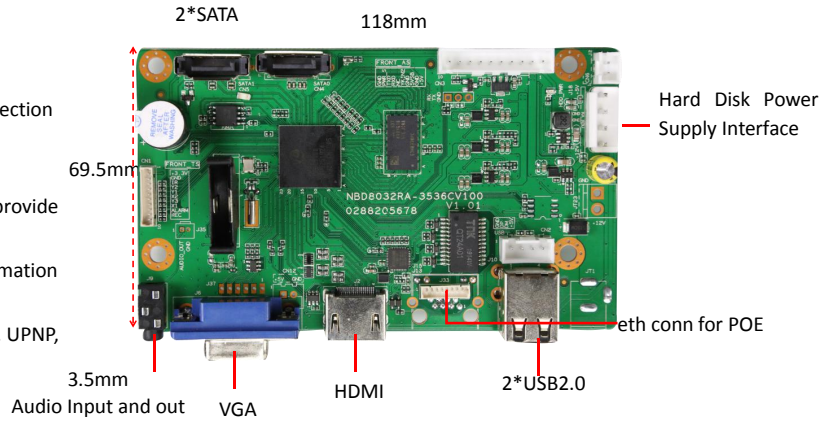


**NBD8016RA-K(EP)**  
16ch 4K POE Extension H.265 NVR Board

**Feature:**

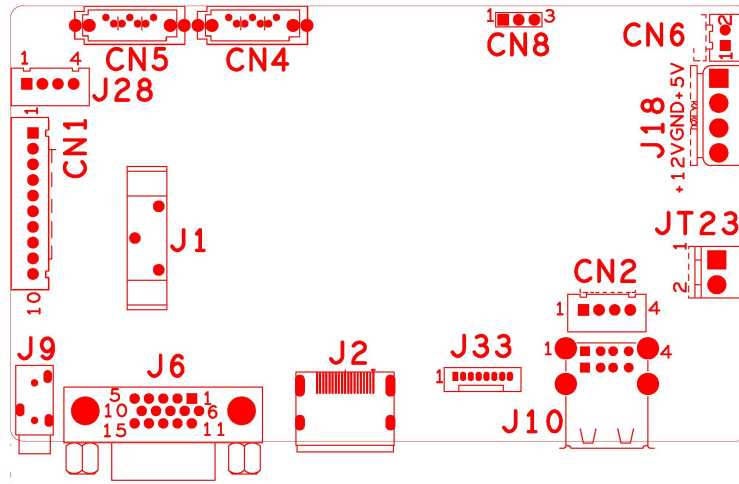
- Requires external POE expansion board power supply and network connection
- Support HDMI VGA HD output;
- Support ONVIF;access third party;
- Support web, CMS, center platform management software MYEYE, provide SDK development;
- Support multiple cloud technology, network penetration, alarm information pushed to your phone and other functions;
- Support multiple network services (support DHCP, FTP, DNS, DDNS, NTP, UPNP, EMAIL, IP searches, Alarm Center, etc.);



**Parameters:**

**Model: NBD8016RA-K(EP)**

	Model	NBD8016RA-K(EP)
System	Main processor	Hi3536C
	Operating System	Embedded Linux
	System resources	Simultaneous multi-channel real-time recording, playback, network operation, USB backup
Interface	Operator interface	16-bit true color graphic menu operation interface, support mouse operation
	Preview	1/2/4/6/8/9/16
Video	Video input (IP)	16 路 4K (Access bandwidth 240Mbps, Need to dock with Gigabit POE module)
	Video compression	H.265A/H.265+ (Compatible with H.265/H.264)
	Display quality	Max: 4K
	Playback quality	4K/5M/4M/3M/1080P
	VR	Unsupport
Audio	human shape / Face	Support(depend on camera)
	Audio compression	G.711A
Record & playback	Intercom	support
	Recording mode	Manual>Alarm>Dynamic Detection>Timing
	Local playback(real-time+Un real-time)	4K (1+2) /5M (2+3) /4M (2+5) /3M (3+6) /1080P (5+9)
	Search mode	Search by Time/Calendar/Event/Channel/Face
	Record storage	HDD、 Network
External interface	Backup mode	Network backup, USB hard disk, USB burner, SATA burner
	Video output	1ch VGA, 1ch HDMI HD output
	Audio I/O	1/1 (3.5MM)
	Alarm I/O	0/0
	Network interface	The expansion board provides a network connection
	USB interface	2*USB2.0 ports
	HDD	2* SATA(Up to 14TB for each disk)
Other	Serial interface	No
	Wireless interface	3G, WIFI (extension via USB)
	ONVIF	Support
	Power supply	Expansion board 12V power supply
	Power Consumption	<10W(Without HDD)
	Work environment	Temperature:0℃ — 55℃ , Humidity:10%— 90%RH , Atm:86kpa— 106kp
Dimension	118mm*69.5mm	
Weight	A total of about 54g	



sign	Function	Interface Description			
J10	Dual USB interface				
CN2	USB Extension interface	1:5V	2:USB_DM	3:USB_DP	4:GND
J33	Gigabit Ethernet port connector	1:RXD	2:TXD	3:GND	
J2	HDMI				
J6	VGA				
J9	3.5mm Audio output interface				
J1	Battery holder				
CN1	10Pin front panel interface	1:+3.3V	2:GND	3:IR	4:COL2
		5 : COL1	6 : ROW2	7 : COL3	8 : ROW1
		9 : ALARM	10 : REC		
J28	4PIN front panel indicator light extension	1:+3.3V	2:GND	3:LINK	4:REC
CN4	SATA				
CN5	SATA				
CN8	Serial interface	1:UART_RXD	2:UART_TXD	3:GND	
CN6	Fan extension	1:12V	2:GND		
J18	Hard disk power socket	1:+5	2:GND	3:GND	4:+12
JT23	12V input ( Transfer from POE switch )	1:GND	2:12V		