



ALPHA 300
EXCELLENCE IN IP VIDEO

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ALPHA 300

EXCELLENCE IN IP VIDEO

Introducing all new 300 line, the premium IP products by CNB Technology, Inc.

Take all the latest developments in IP video technology.

Add the cumulative experience of video security experts.

Finish with meticulous manufacturing discipline of CNB Technology.

The result is - α 300 line of products.

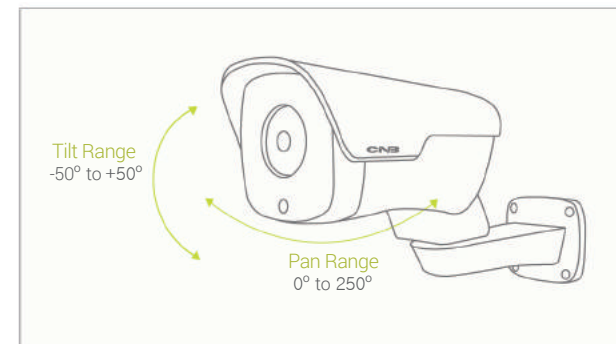
α 300 line of products will do the job for the most demanding applications and projects.

RICH FEATURES & VERSATILITY

PT Bullet

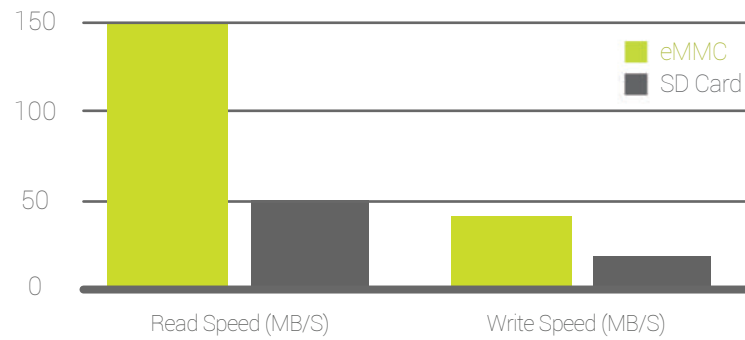


1 A bullet camera with built-in PT mount

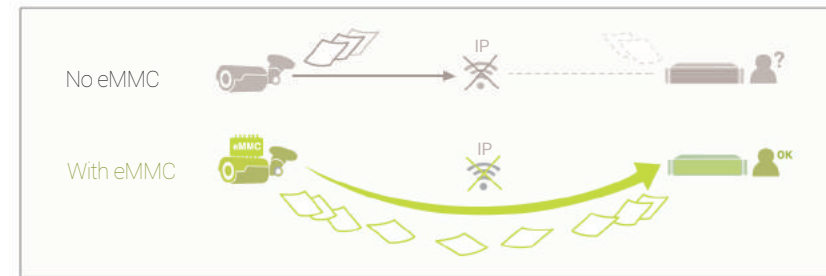


- 400 Presets with scan and patrol functions
- Remote PT control
- Self-locking worm gear design

2 eMMC Technology



Built-in eMMC memory with built-in bad cell detection & recovery
20 times longer life than SD cards. Lower failure rate.



The IP camera stores video data automatically in eMMC when the network is disconnected.
The NVR retrieves video data from camera when the network connection is restored.

3 Vehicle grade IR illuminators



OSRAM Vehicle-grade LEDs : Up to 100m(TBP25R-x2) / 50m(TBP41R-40, TBP41R-60) IR range.
IR anti-reflection glass : Increases IR transmission and reduces insect gathering at night.

44X OPTICAL ZOOM & POWERFUL LOW-LIGHT COLOR IMAGES



1 44x Optical Zoom



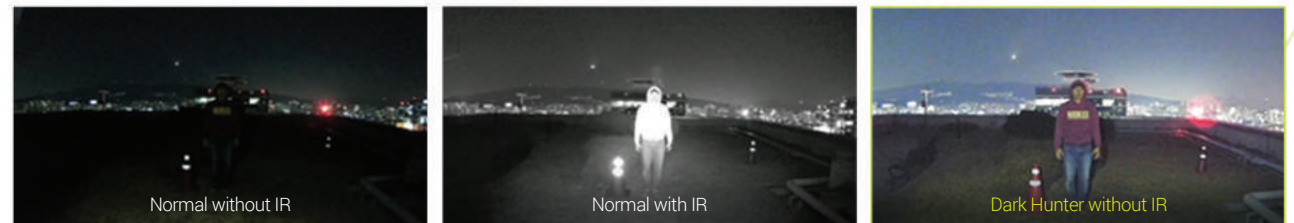
Enables long range license plate recognition and face recognition.

2 Optical Defog



Produces clear image through foggy and hazy air.

3 Dark Hunter ISP



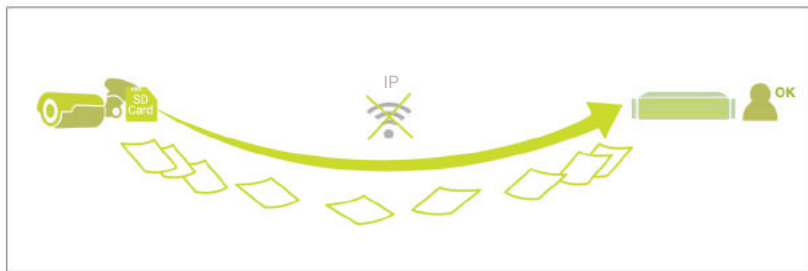
Captures color image of fast-moving objects under low light condition. (30/60fps)

HIGH-END NVRS

4K & H.265



1 ANR (Automatic Network Recovery)



When the network connection is restored after interruption, Q300 reaches out to all the cameras in the network with built-in memories (eMMC or SD) to look for data stored in the camera while network connection is interrupted.

2 Cloud Access & Auto Upgrade



One click upgrade of firmware : automatically checks for latest firmware available, download, and update.
Easy setup of remote view app : just scan the QR code on the monitor.

i - CODE COMPRESSION

Super - efficient CODEC is standard for all Q300 NVRs.



Enhanced Transmission Efficiency

i-Codec enables efficient use of network bandwidth by reducing the data size without sacrificing video quality.

H.264 : 4Mbps → i-Code : 0.4~1.0Mbps
H.265 : 2Mbps → i-Code : 0.2~0.5Mbps



Reduced storage cost

Smaller file size means
70 - 90% reduction in storage space.



High quality video even at low bitrate

Maintains vivid video image for moving objects.



Increased Customer's Satisfaction

High quality video at low bandwidth and storage cost.

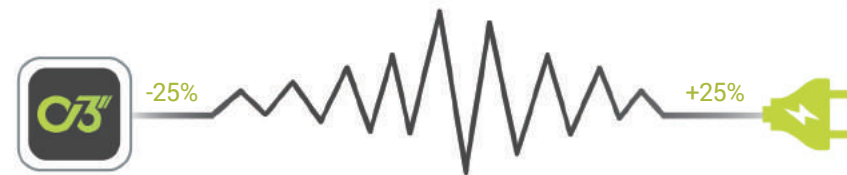
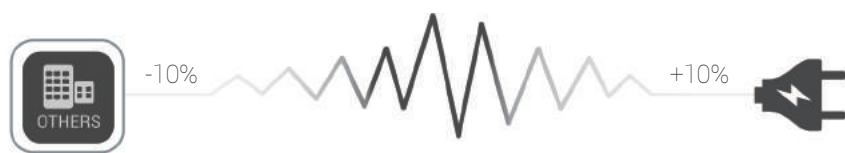
LONG DISTANCE ETHERNET TRANSMISSION

Q300 line of products are equipped with extended Ethernet technology. Up to 300m transmission of data and power over Cat5E or Cat6 cables.

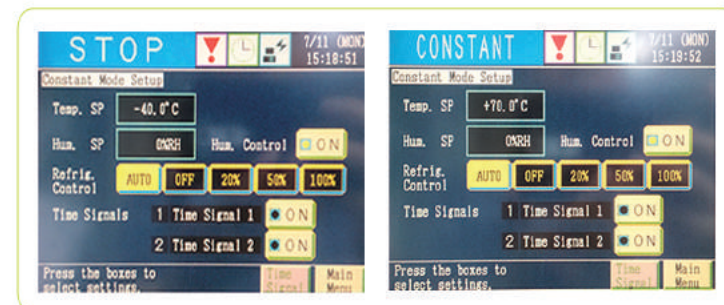
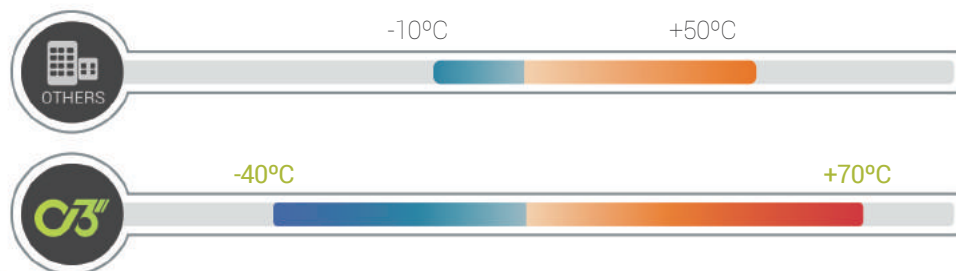


RELIABILITY

1 Wide range of voltage tolerance | Enhanced system stability with extra wide $\pm 25\%$ of input voltage tolerance.



2 Extreme operating-temperature range | All outdoor models are tested under extreme temperatures.



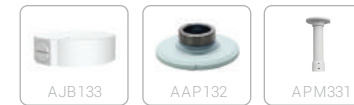
DOME CAMERA

FEATURES

- D Dark Hunter
- W True WDR
- 0% Optical Defog
- ~X Optical Zoom
- ~m IR Distance



BRACKET



W 30m

TDV45R-W
H.265 4MP MFZ IR Dome

D W 4x 30m

TDV25R-SW
H.265 Full HD Dark Hunter
MFZ IR Dome

W 30m

TDV25R-W
H.265 Full HD MFZ IR Dome

30m

TDV22R
Full HD VF IR Dome

Image Sensor	1/3", 4MP, CMOS	1/2.8", 2MP, CMOS	1/3", 2MP, CMOS	1/2.9", 2MP, CMOS
Lens	2.8 ~ 12mm, Motorized Vari-Focal	2.8 ~ 12mm, Motorized Vari-Focal	2.8 ~ 12mm, Motorized Vari-Focal	2.8 ~ 12mm, Vari-Focal
Resolution	2592x1520, Max.20fps 2560x1440, Max.25fps	1920x1080, Max.30fps	1920x1080, Max.30fps	1920x1080, Max.30fps
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.264 / MJPEG
Video Streaming	Triple streams	Triple streams	Triple streams	Triple streams
WDR	True WDR	True WDR	True WDR	Digital WDR
IR Distance	up to 30m	up to 30m	up to 30m	up to 30m
Audio In / Out	1 / 1	1 / 1	1 / 1	-
Alarm In / Out	1 / 1	1 / 1	1 / 1	-
Power	12V DC, PoE	12V DC, PoE	12V DC, PoE	12V DC, PoE
Ingress Protection	IP66	IP66	IP66	IP66
Working Environment	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C

DOME CAMERA

FEATURES

- D Dark Hunter
- W True WDR
- 0/0 Optical Defog
- ~x Optical Zoom
- ~m IR Distance



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W 30m

TDT41R-28/36/60W
H.265 4MP Fixed IR Dome

30m

TDT21R-28/36/60
Full HD Fixed IR Dome



BRACKET



W 30m

TDB41R-28/36/60W
H.265 4MP Fixed IR Dome

W 30m

TDB21R-28/36/60W
Full HD Fixed IR Dome

Image Sensor	1/3", 4MP, CMOS	1/3", 2MP, CMOS	1/3", 4MP, CMOS	1/2.8", 2MP, CMOS
Lens	2.8mm, 3.6mm, 6mm	2.8mm, 3.6mm, 6mm	2.8mm, 3.6mm, 6mm	2.8mm, 3.6mm, 6mm
Resolution	2592x1520, Max.20fps 2560x1440, Max.25fps	1920x1080, Max.30 fps	2592x1520, Max.20fps 2560x1440, Max.25fps	1920x1080, Max.30fps
Video Compression	H.265 / H.264 / MJPEG	H.264 / MJPEG	H.265 / H.264 / MJPEG	H.264 / MJPEG
Video Streaming	Triple streams	Triple streams	Triple streams	Triple streams
WDR	True WDR	Digital WDR	True WDR	True WDR
IR Distance	up to 30m	up to 30m	up to 30m	up to 30m
Audio In / Out	-	-	1 / 1	1 / 1
Alarm In / Out	-	-	1 / 1	1 / 1
Power	12V DC, PoE	12V DC, PoE	12V DC, PoE	12V DC, PoE
Ingress Protection	IP66	IP66	IP66	IP66
Working Environment	-35°C ~ +60°C	-35°C ~ +60°C	-35°C ~ +60°C	-35°C ~ +60°C

DOME CAMERA

FEATURES

- D Dark Hunter
- W True WDR
- 0/∞ Optical Defog
- ~x Optical Zoom
- ~m IR Distance



W 15m

TDM41R-28W
H.265 4MP Fixed IR Dome

15m

TDM21R-28
Full HD Fixed IR Dome

Image Sensor	1/3", 4MP, CMOS	1/2.8", 2MP, CMOS
Lens	2.8mm, Fixed	2.8mm, Fixed
Resolution	2592x1520, Max.20fps 2560x1440, Max.25fps	1920x1080, Max.30fps
Video Compression	H.265 / H.264 / MJPEG	H.264 / MJPEG
Video Streaming	Triple streams	Triple streams
WDR	True WDR	Digital WDR
IR Distance	up to 15m	up to 15m
Audio In / Out	1 / 1	1 / 1
Alarm In / Out	-	-
Power	12V DC±25%, PoE	12V DC±25%, PoE
Ingress Protection	IP66	IP66
Working Environment	-35°C ~ +60°C	-35°C ~ +60°C

BULLET CAMERA

FEATURES

- D Dark Hunter
- W True WDR
- 0% Optical Defog
- ~x Optical Zoom
- ~m IR Distance



50m

TBP41R-40/60
4MP PT IR Bullet



BRACKET



2x 100m

TBP25R-x2
Full HD PT IR Bullet

W 30m

TBN45R-W
H.265 4MP MFZ IR Bullet



BRACKET



D W 10x 100m

TBL24R-x10SW
H.265 Full HD Dark Hunter
10x Zoom IR Bullet

Image Sensor	1/3", 4MP, CMOS	1/2.8", 2MP, CMOS	1/3", 4MP, CMOS	1/2.8", 2MP, CMOS
Lens	4mm / 6mm	3 ~ 6mm, 2x Optical Zoom	2.8 ~ 12mm, Motorized	4.7 ~ 47mm, 10x Optical Zoom
Resolution	2592x1520, Max.20fps 2560x1440, Max.25fps	1920x1080, Max.30fps	2592x1520, Max.20fps 2560x1440, Max.25fps	1920x1080, Max.30fps
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG
Video Streaming	Triple streams	Triple streams	Triple streams	Triple streams
WDR	Digital WDR	Digital WDR	True WDR	True WDR
IR Distance	up to 50m	up to 100m	up to 30m	up to 100m
Audio In / Out	1 / 1	1 / 1	1 / 1	1 / 1
Alarm In / Out	2 / 1	2 / 1	1 / 1	2 / 1
Power	12V DC ±25%, PoE(IEEE802.3at)	12V DC ±25%, PoE(IEEE802.3at)	12V DC, PoE	12V AC / DC ±25%, PoE(IEEE802.3at)
Ingress Protection	IP66	IP66	IP66	IP67
Working Environment	-40°C ~ +60°C	-40°C ~ +60°C	-35°C ~ +60°C	-40°C ~ +60°C

BULLET CAMERA

FEATURES

- D Dark Hunter
- W True WDR
- 0/100 Optical Defog
- ~X Optical Zoom
- ~m IR Distance



BRACKET



30m

TBN22R

Full HD VF IR Bullet



W 30m

TBM41R-36/60/12W

H.265 4MP Fixed IR Bullet

30m

TBM21R-36/60/12

Full HD Fixed IR Bullet

Image Sensor	1/2.8", 2MP, CMOS	1/3", 4MP, CMOS	1/2.8", 2MP, CMOS
Lens	2.8 ~ 12mm, Manual	3.6mm / 6mm / 12mm	3.6mm / 6mm / 12mm
Resolution	1920x1080, Max.30fps	2592x1520, Max.20fps 2560x1440, Max.25fps	1920x1080, Max.30fps
Video Compression	H.264 / MJPEG	H.265 / H.264 / MJPEG	H.264 / MJPEG
Video Streaming	Triple streams	Triple streams	Triple streams
WDR	Digital WDR	True WDR	Digital WDR
IR Distance	up to 30m	up to 30m	up to 30m
Audio In / Out	1 / 1	-	-
Alarm In / Out	1 / 1	-	-
Power	12V DC, PoE	12V DC, PoE	12V DC, PoE
Ingress Protection	IP66	IP66	IP66
Working Environment	-35°C ~ +60°C	-35°C ~ +60°C	-35°C ~ +60°C

PTZ CAMERA

FEATURES

- D** Dark Hunter
- W** True WDR
- 0/0** Optical Defog
- ~x** Optical Zoom
- ~m** IR Distance



BRACKET



D **W** **0/D** **4.4x** **250m**

TPM24R-x44SW

H.265 Full HD Dark Hunter 44x PTZ



BRACKET



D **W** **33x** **200m**

TPU24R-x33SW

H.265 Full HD Dark Hunter 33x PTZ



BRACKET



33x **500m**

TPL24Z-x33

Full HD Laser 33x PTZ

Image Sensor	1/2.8", 2MP, CMOS	1/2.8", 2MP, CMOS	1/2.8", 2MP, CMOS
Lens	5 ~ 220mm, 44x Optical Zoom	4.5 ~ 148.5mm, 33x Optical Zoom	4.5 ~ 148.5mm, 33x Optical Zoom
Resolution	1920x1080, Max.60 fps	1920x1080, Max.60 fps	1920x1080, Max.30fps
Video Compression	H.265 / H.264 / MJPEG	H.265 / H.264 / MJPEG	H.264
Video Streaming	Triple streams	Triple streams	Triple streams
WDR	True WDR	True WDR	Digital WDR
IR Distance	up to 250m	up to 200m	up to 500m
Audio In / Out	1 / 1	1 / 1	1 / 1
Alarm In / Out	2 / 1	2 / 1	2 / 1
Power	24V±25% AC / DC	24V AC / DC	24V±25% AC / DC
Ingress Protection	IP66	IP66	IP66
Working Environment	-45°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C

PTZ CAMERA

FEATURES

-  Dark Hunter
-  True WDR
-  Optical Defog
-  Optical Zoom
-  IR Distance



BRACKET



30x 100m

TPN24R-x30
Full HD 30x PTZ



4K

BRACKET



22x 150m

TPS94R-x22
4K 22x PTZ

Image Sensor	1/2.8", 2MP, CMOS	1/1.7", 12MP, CMOS
Lens	4.5 ~ 135mm, 30x Optical Zoom	6.5 ~ 143mm, 22x Optical Zoom
Resolution	1920x1080, Max.30fps	12MP: 4000x3000, Max.20fps 4K: 3840x2160, Max.30fps
Video Compression	H.264 / MJPEG	H.264
Video Streaming	Triple streams	Triple streams
WDR	Digital WDR	Digital WDR
IR Distance	up to 100m	up to 150m
Audio In / Out	1 / 1	1 / 1
Alarm In / Out	1 / 1	2 / 1
Power	24V AC / DC, PoE	24V±25% AC / DC
Ingress Protection	IP66	IP66
Working Environment	-40°C ~ +65°C	-40°C ~ +70°C

BOX / FISHEYE CAMERA

FEATURES

- D Dark Hunter
- W True WDR
- 0/0 Optical Defog
- ~x Optical Zoom
- ~m IR Distance



D W 0/0

TGB20-SW
H.265 Full HD Dark Hunter BOX



20m

TSE96R-18
4K Fisheye

Image Sensor	1/1.9", 2MP, CMOS	1/1.7", 12MP, CMOS
Lens	Without Lens (CS)	1.8mm
Resolution	1920x1080, Max.60fps	4000x3000, Max.25fps 4K : 3008x3000, Max.20fps
Video Compression	H.265 / H.264	H.264
Video Streaming	Triple streams	Sextuple streams
WDR	True WDR	Digital WDR
IR Distance	-	up to 20m
Audio In / Out	1 / 1	1 / 1
Alarm In / Out	2 / 1	2 / 1
Power	24V AC, 12 DC, PoE	12V DC, PoE
Ingress Protection	-	IP66
Working Environment	-20°C ~ +60°C	-30°C ~ +60°C

NVR



KNU041-4P
H.265 & 4K NVR



KNU081-8P
H.265 & 4K NVR

KNU162-16P
H.265 & 4K NVR

Video Input	4CH	8CH	16CH
Input Bandwidth	40 Mbps	60 Mbps	160 Mbps
Video Output	1 HDMI : 4K / 1080p 1 VGA : 1080p	1 HDMI : 4K / 1080p 1 VGA : 1080p	1 HDMI : 4K / 1080p 1 VGA : 1080p
Codec	H.265 / H.264	H.265 / H.264	H.265 / H.264
Recording	8MP, 6MP, 5MP, 4MP, 3MP 1080p, 960p, 720p, D1, 2CIF, CIF	8MP, 6MP, 5MP, 4MP, 3MP 1080p, 960p, 720p, D1, 2CIF, CIF	8MP, 6MP, 5MP, 4MP, 3MP 1080p, 960p, 720p, D1, 2CIF, CIF
Playback Capability	1x4K@30, 3x4MP@20 4x1080p@30	1x4K@30, 3x4MP@20 4x1080p@30, 8x720p@30	4x4K@30, 8x4MP@20 16x1080p@30
Storage	1 SATA (6TB Max)	1 SATA (6TB Max)	2 SATA (12TB Max)
Audio In / Out	1 / 1, RCA	1 / 1, RCA	1 / 1, RCA
Alarm In / Out	4 / 1	4 / 1	4 / 1
PoE Interface	4 PoE(IEEE 802.3at)	8 PoE(IEEE 802.3at)	16 PoE(IEEE 802.3at)
USB Interface	Front : 1 x USB2.0 Rear : 2 x USB2.0	Front : 1 x USB2.0 Rear : 2 x USB2.0	Front : 1 x USB2.0 Rear : 1 x USB3.0 , 1 x USB2.0
ETC	1U Case	1U Case	1U Case

NVR



KNU164-16P
H.265 & 4K NVR

KNU328
H.265 & 4K NVR



KNU6416-R
H.265 & 4K NVR

KNU12816-R
H.265 & 4K NVR

Video Input	16CH	32CH	64CH	128CH
Input Bandwidth	160 Mbps	320 Mbps	384 Mbps	512 Mbps
Video Output	2 HDMI : 4K / 1080p 1 VGA : 1080p	2 HDMI : 4K / 1080p 1 VGA : 1080p	2 HDMI : 4K / 1080p 1 VGA : 1080p	2 HDMI : 4K / 1080p 1 VGA : 1080p
Codec	H.265 / H.264	H.265 / H.264	H.265 / H.264	H.265 / H.264
Recording	8MP, 6MP, 5MP, 4MP, 3MP 1080p, 960p, 720p, D1, 2CIF, CIF	8MP, 6MP, 5MP, 4MP, 3MP 1080p, 960p, 720p, D1, 2CIF, CIF	12MP, 8MP, 6MP, 5MP, 4MP, 3MP 1080p, 960p, 720p, D1, 2CIF, CIF	12MP, 8MP, 6MP, 5MP, 4MP, 3MP 1080p, 960p, 720p, D1, 2CIF, CIF
Playback Capability	4x4K@30, 8x4MP@20 16x1080p@30	4x4K@30, 8x4MP@20 16x1080p@30, 32x720p@30	4x4K@30, 16x1080p@30 36x720p@30, 64xD1	4x4K@30, 16x1080p@30 36x720p@30, 64xD1
Storage	4 SATA (24TB Max)	8 SATA (48TB Max)	16 SATA (96TB Max)	16 SATA (96TB Max)
Audio In / Out	1 / 1, RCA	1 / 1, RCA	1 / 1, RCA	1 / 1, RCA
Alarm In / Out	16 / 4	16 / 4	24 / 8	24 / 8
PoE Interface	16 PoE(IEEE 802.3at)	-	-	-
USB Interface	Front : 2 x USB2.0 Rear : 1 x USB3.0	Front : 2 x USB2.0 Rear : 1 x USB3.0	Rear : 4 x USB3.0	Rear : 4 x USB3.0
ETC	2U Case	2U Case	3U Case	3U Case



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Q300 by



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