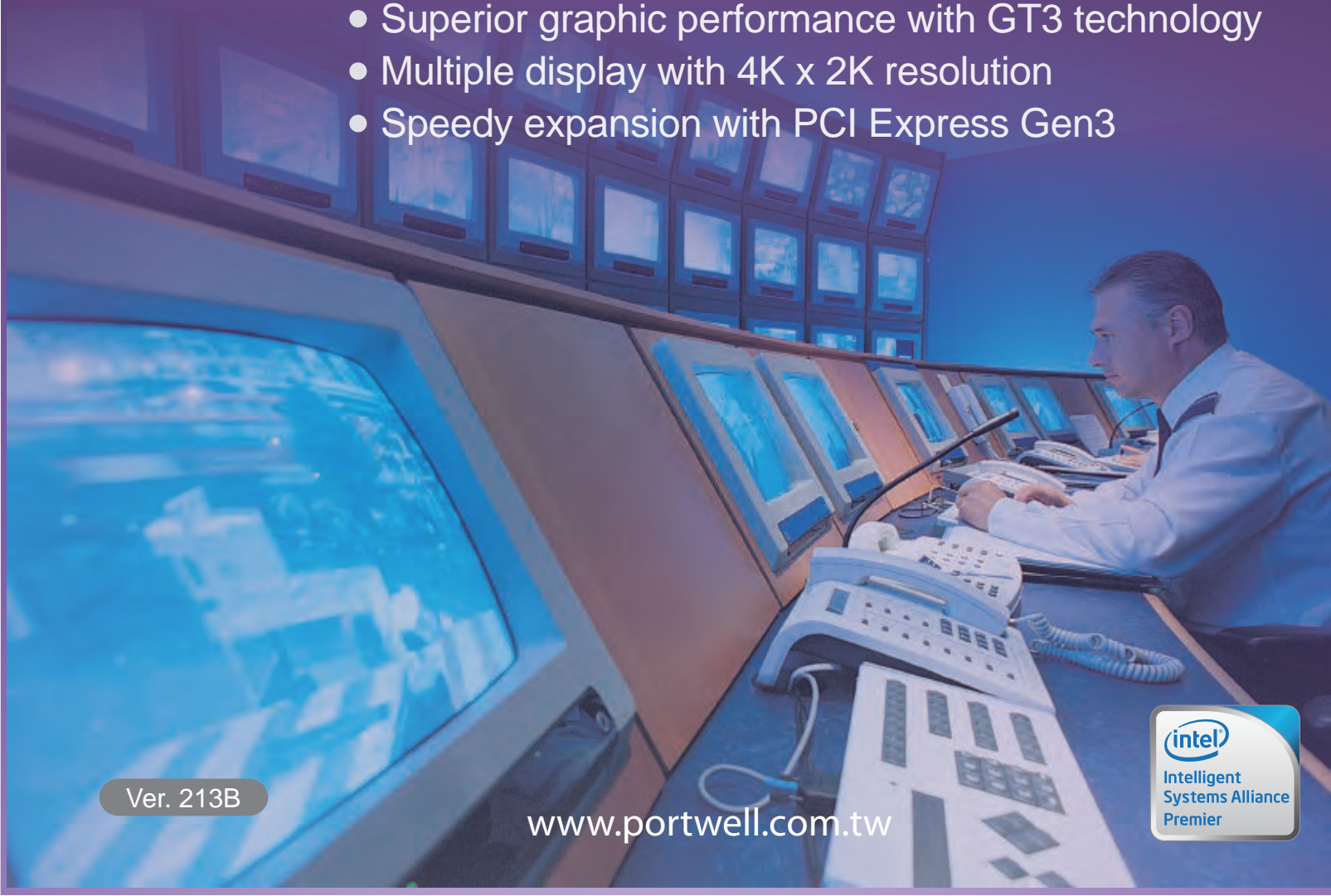




## Portwell Digital Security Surveillance

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- Strong computing power up to 15%
- Superior graphic performance with GT3 technology
- Multiple display with 4K x 2K resolution
- Speedy expansion with PCI Express Gen3



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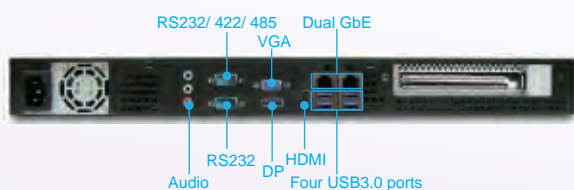
# TNVR-1043

1U 4Bay NVR, equipped with an Intel® Core™ i3/i5/i7 Processor



## FEATURES

- Support Intel® Core™ i3/i5/i7 Desktop Processor
- 4 x 3.5" Hot-Swappable HDD Trays
- Triple Display by (VGA+DP+ HDMI)
- Superior Image Processing via Intel® 3D Trigate Technology
- Speedy Platform: - USB 3.0/PCIe Gen 3.0/DDR3 1600
- Support AMT 9.0 Remote Control Management
- API Utility Availability(Portwell PET, PAC)
- Support Windows 7, Windows 8, Linux



## SYSTEM

Main Board	WADE-8015
CPU Support	Intel® 4th generation Core™ i7-4770S (8M cache 3.1GHz, LGA 1150) Intel® 4th generation Core™ i5-4570S (6M cache 2.9 GHz, LGA 1150) Intel® 4th generation Core™ i3-4330 (4M cache 3.5 GHz, LGA 1150)
Platform Control Hub	Intel® Q87 PCH
Storage	- 4x 3.5" Hot-Swappable HDD Trays - 1 x mSATA via Mini-PCIe interface
RAID Level	RAID 0,1,5,10
Ethernet	2 x Gigabit LAN/RJ-45
Cooling System	Dual 4cm Fan.40x40x28mm 3Pin.250mm

## I/O Interface-Rear

Display	HDMI: Digital resolution up to 4096x2160@24Hz DP: Digital resolution up to 3840x2160@60Hz VGA: Analog resolution up to 1920x1200@60Hz
Serial Port	- 1x RS232 - 1x RS232/422/485 selectable
USB	4x USB 3.0
Audio	1x Speaker-out and 1x Mic-in/Line-in (ALC866-GR, 5.1 Channel)
Ethernet	2x Gigabit LAN/RJ-45
Expansion	PCI-E X16 *1 (Optional)

## Mechanical & Environment

Power Supply	220W ATX AC 90V~264V with active PFC
Environment	Operation Temperature 0~40°C Storage Temperature -20~80°C Relative Humidity 95% @ 40°C, non-condensing Operation Vibration 5Grms / 5~500Hz, IEC 60068-2-27 Operation Shock 50G, 11 msec. , IEC 60068-2-27
Mechanical	443*387*44mm
Gross Weight	10.6 KG





# TNVR-8077

# TNVR-8015

Tower 4Bay NVR, equipped with an Intel® Cedar View Dual Core-D2500 Solution

Tower 4Bay NVR, equipped with an Intel® 4th Core™ i3/i5/i7 Processor



## FEATURES

- Support Intel® Atom Dual-Core D2550 1.86GHz
- 4 x 3.5" Hot-Swappable HDD Trays
- Dual Display by VGA/HDMI/LVDS 24bit
- One PCI-Express x1 and one Mini-PCle socket
- API Utility Availability(Portwell PET, PAC)
- Support Windows 7(32bit)

## TNVR-8077

### SYSTEM

Main Board	WADE-8077
CPU Support	Intel® Atom D2550(1.86GHz, 10W) processor in FCBGA 559 package
Platform Control Hub	NM10 Express chipset
HDD Bay	4 x SATA 3.5" HDD
Cooling System	1 x 12cm FAN

### I/O Interface-Front

USB	2 x USB 2.0
LED	LAN LED, POWER LED
Switch	Power Switch, Reset Switch

### I/O Interface-Rear

Serial Port	2 x RS232
Display	HDMI: Digital resolution up to 1920x1200 VGA: Analog resolution up to 2048x1536 LVDS: Digital resolution 24 bit up to 1440x900
USB	4x USB 2.0
Audio	Line-in, Line-out and Mic-in(ALC 662, 5.1 channel)
Ethernet	2 x Gigabit Ethernet (Realtek 8111F)
Switch	Power Switch, Reset Switch
Expansion	- PCI-E x1 - Mini-PCle x1

### Mechanical & Environment

Power Supply	90V~264V, Single Phase
Max. Output Power	200W
Environment	Operation Temperature 0~40°C Storage Temperature -20~80°C Relative Humidity 95% @40°C, non-condensing
Dimension	(D)320 x (W)200 x (H)205 mm
Gross Weight	17 KG



## FEATURES

- Support Intel® Core™ i3/i5/i7 Desktop Processor
- 4 x 3.5" Hot-Swappable HDD Trays
- Triple Display by (VGA+DP+ HDMI)
- Superior Image Processing via Intel® 3D Trigate Technology
- Speedy Platform: - USB 3.0/PCIe Gen 3.0/DDR3 1600
- Support AMT 9.0 Remote Control Management
- API Utility Availability(Portwell PET, PAC)
- Support Windows 7, Windows 8, Linux

## TNVR-8015

### SYSTEM

Main Board	WADE-8015
CPU Support	Intel® 4th generation Core™ i7-4770S (8M cache 3.1GHz, LGA 1150) Intel® 4th generation Core™ i5-4570S (6M cache 2.9 GHz, LGA 1150) Intel® 4th generation Core™ i3-4330 (4M cache 3.5 GHz, LGA 1150)
Platform Control Hub	Intel® Q87 PCH
HDD Bay	4 x SATA 3.5" HDD 1 x mSATA via Mini-PCle interface
RAID Level	RAID 0,1,5,10
Cooling System	1 x 12cm FAN

### I/O Interface-Front

USB	2 x USB 2.0
LED	LAN LED, POWER LED
Switch	Power Switch, Reset Switch

### I/O Interface-Rear

Serial Port	1 x RS232 + 1 x RS232/422/485
Display	HDMI: Digital resolution up to 4096x2160@24Hz DP: Digital resolution up to 3840x2160@60Hz VGA: Analog resolution up to 1920x1200@60Hz
USB	4x USB 3.0
Audio	Line-in, Line-out and Mic-in(ALC 886-GR, 5.1Channel )
Ethernet	2 x Gigabit Ethernet (Intel® WG1218LM+WG1210AT)
Expansion	- PCI-E x16 x1 (Support x1, x4, x8, x16 mode) - Mini-PCle x1

### Mechanical & Environment

Power Supply	90V~264V, Single Phase
Max. Output Power	200W
Environment	Operation Temperature 0~40°C Storage Temperature -20~80°C Relative Humidity 95% @40°C, non-condensing
Dimension	(D)320 x (W)200 x (H)205 mm
Gross Weight	18 KG



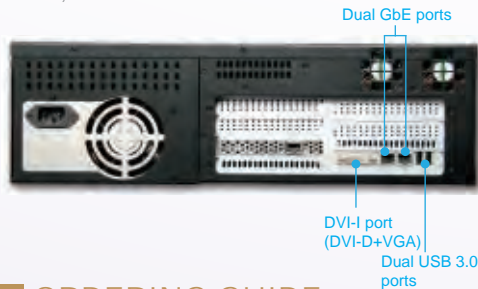
# TNVR-8112

3U 12Bay NVR, equipped with an Intel® Xeon E3 family processor



## FEATURES

- Support Intel® Xeon E3-1200v3 Family and Core™ i3 / i5
- 12 x 3.5" Hot-Swappable HDD Trays
- Triple Display by DVI-I (VGA+DVI-D) + HDMI
- Superior Image Processing via Intel® 3D Trigate Technology
- Speedy Platform: USB 3.0/PCIe Gen 3.0/DDR3 1600
- Support AMT 9.0 Remote Control Management
- API Utility Availability (Portwell PET, PAC)
- Support Windows 7, Windows 8, Windows Server 2008, Linux



## ORDERING GUIDE

<b>B6902980</b>	PS/2 Keyboard/ Mouse bracket
<b>B6902230</b>	USB port bracket
<b>B6900270</b>	Dual Comport bracket
<b>AB9-2066</b>	PA-M1AU Media Kit for audio function
<b>ARC-1182ix-12</b>	RAID Card-ARC-1182ix-12 Compliance 12 ports 6Gb/s SAS/ SATA RAID Adapters



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E-mail: info@portwell-laxsons.com  
http: //www.portwell-laxsons.com

## SYSTEM

Main Board	ROBO-8112
CPU Support	Intel® Xeon E3-1200v3 Family Intel® 4 <sup>th</sup> generation Core™ i3-4330TE (3M cache 2.4 GHz, LGA 1150) Intel® 4 <sup>th</sup> generation Core™ i5-4570TE (4M cache 2.7 GHz, LGA 1150)
Platform Control Hub	Intel® C226 PCH
Storage	- 12 x 3.5" Hot-Swappable HDD Trays - 1 x 2.5" Internal HDD for SW installation
RAID Level	RAID 0,1,5,10
Ethernet	2 x Gigabit LAN/RJ-45
Cooling System	8cm Fan. 80x80x25mm 3Pin.220mm

## I/O Interface-Rear

Display	HDMI: Digital resolution up to 4096x2160 @24Hz DVI-D: Digital resolution up to 1920x1200 @60Hz VGA: Analog resolution up to 1920x1200 @60Hz
Serial Port	- 1x RS232 via bracket - 1x RS232/422/485 selectable via bracket
USB	- 4 USB 2.0 (through backplane) - 4 USB 3.0, 2 ports on bracket (2 ports on board optional)
Audio	1x Speaker-out and 1x Mic-in/Line-in via Media kit (Optional)
Ethernet	2x Gigabit LAN/RJ-45 (Intel® WG1217LM, WG1210AT)
Expansion	PCI-E X16 *1 PCI-E X8 *1 PCI *3

## Mechanical & Environment

Power Supply	460W+460W mini-redundant with active PFC
Environment	Operation Temperature 0~40°C Storage Temperature -20~80°C Relative Humidity 95% @ 40°C, non-condensing Operation Vibration 5Grms / 5~500Hz, IEC 60068-2-27 Operation Shock 50G, 11 msec. , IEC 60068-2-27
Mechanical	443*600*132mm
Gross Weight	38 KG