



## **DS-1100 Comparison**

# Benchmarks - Company

**ADVANTECH**



***cincoze***



# High Performance & Expandable Embedded Computer



**Advantech  
ARK-3520**



**ADLINK  
MVP-6003**



**Cincoze  
DS-1102**








**Nexcom  
NISE 3700**








**Neusys  
Nuvo-5000E/P**






# Performance

Company		Cincoze	Advantech	ADLINK	NEXCOM	Neousys
Picture						
Series		<b>DS-1100 Series</b>	<b>ARK-3000 Series</b>	<b>MVP-6000 Series</b>	<b>NiSE-3000 Series</b>	<b>Nuvo-5000 Series</b>
Models		DS-1102	ARK-3520	MVP-6003	NiSE 3700	Nuvo-5000E/P
Performance	Intel Core Generation	6 <sup>th</sup> Gen	6 <sup>th</sup> Gen	6 <sup>th</sup> Gen	4/5 <sup>th</sup> Gen	6 <sup>th</sup> Gen
	Platform	<b>Desktop</b>	Mobile	Mobile	<b>Desktop</b>	<b>Desktop</b>
	Memory Support	DDR4 2133 MHz 32GB	DDR4 2133 MHz 32GB	DDR4 2133 MHz 32GB	DDR3L 1600MHz 8GB	DDR4 2133 MHz 32GB
	CPU Power Consumption	<b>35W/65W</b>	45W	35W	45W	<b>35W/65W</b>
I/O Interface	AT/ATX Mode Selectable	<b>V</b>	<b>V</b>		<b>V</b>	
	Display	Triple	Triple	Dual	Triple	Triple
	USB	8	8	6	8	8
	COM	2	<b>8</b>	4	3	3
	PS/2	<b>1</b>	<b>1</b>			
	LAN	2	2	<b>3</b>	<b>3</b>	2
	2.5" SATA	<b>2</b>	<b>2</b>	1	1	<b>2</b>
Score		4	4	2	2	4






# Function

Company		Cincoze	Advantech	ADLINK	NEXCOM	Neousys
Picture						
Series		DS-1100 Series	ARK-3000 Series	MVP-6000 Series	NiSE-3000 Series	Nuvo-5000 Series
Models		DS-1102	ARK-3520	MVP-6003	NiSE 3700	Nuvo-5000E/P
Function	Multiple Lan	6	2	3	3	6
	Power over Ethernet (POE)	4				4
	M12 Connector	4				
	Power over Serial (POS)	6	2			
	Isolated Serial	4				
	Isolated Digital I/O	8	16	8		32
	Ignition Sensing	V				
	RAID	V	V			V
	Remote Power On/Off	V			V	V
	Remote Reset	V				
Instant Reboot	V					
Score		4.5	2.5	1.5	1.5	3






# Modular & Expandable

Company		Cincoze	Advantech	ADLINK	NEXCOM	Neousys
Picture						
Series		DS-1100 Series	ARK-3000 Series	MVP-6000 Series	NiSE-3000 Series	Nuvo-5000 Series
Models		DS-1102	ARK-3520	MVP-6003	NISE 3700	Nuvo-5000E/P
Modular & Expandable	Modular Function	1 (CFM Module)				
	Modular I/O	6 (CMI Module)	3 (ARK plus Module)			4 (MezIO)
	Mini PCIe slots	3	2	1	2	2
	Mini PCIe Module Kit	4 (MEC Kit)	11 (iDoor)			
	PCI/PCle Expansion	2	2	2	2	1
	Combinations of PCI/PCle Interface	6	2	1	2	2
Score		4.5	3.5	2	2.5	2.5

# Highly Adaptable

Company		Cincoze	Advantech	ADLINK	NEXCOM	Neousys
Picture						
Series		DS-1100 Series	ARK-3000 Series	MVP-6000 Series	NiSE-3000 Series	Nuvo-5000 Series
Models		DS-1102	ARK-3520	MVP-6003	NISE 3700	Nuvo-5000E/P
Highly Adaptable	External Fan	V		V		
	Riser Card Fan	V				
	Expansion area Fan	V (UB Fan)				V (Cassette Fan)
	Adapter Holder	V				
	Exchange Fuse	V				
Score		5	0	2	0	2

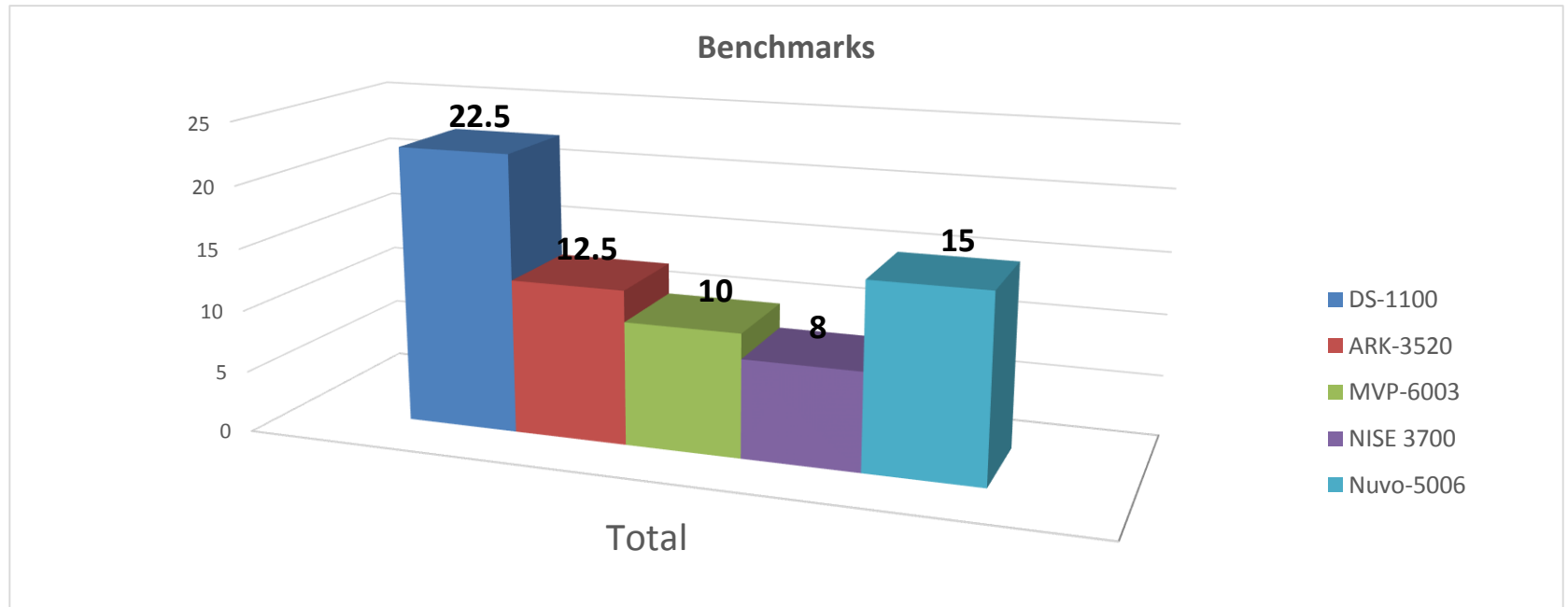
# Rugged & Reliable

Company		Cincoze	Advantech	ADLINK	NEXCOM	Neousys
Picture						
Series		DS-1100 Series	ARK-3000 Series	MVP-6000 Series	NiSE-3000 Series	Nuvo-5000 Series
Models		DS-1102	ARK-3520	MVP-6003	NiSE 3700	Nuvo-5000E/P
Rugged Design	Unibody design	V				
	Fan-less design	V	V	V	V	V
	Cable-less design	V				
	Jumper-less design	V				
	Shock & Vibration	50G/ 5G	30G/ 3G	100G/ 5G	50G/ 0.5G	50G/ 5G
Wide Operating Temperature	Wide Temperature	35W: -40~70°C 65W: -40~60°C (With Optional External Fan)	-20~60°C	0~50°C	-5~55°C	35W: -25~70°C 65W: -25~70°C (configured as 35W mode)
Reliable Power	Wide range DC power input	9~48V	9~36V	12~24V	9~30V	8~35V
	Reverse power input protection	V				
Industrial Protection	OVP	V				
	OCP	V				
	ESD protection	V		V		
	Surge protection	V		V		
Battery-free Design	Super Cap	V				
Industry	EN50155	V				V
Score		4.5	2.5	2.5	2	3.5



# Comparison Chart

	DS-1102	ARK-3520	MVP-6003	NISE 3700	Nuvo-5000E/P
Performance	4	4	2	2	4
Function	4.5	2.5	1.5	1.5	3
Modular & Expandable	4.5	3.5	2	2.5	2.5
Highly Adaptable	5	0	2	0	2
Rugged & Reliable	4.5	2.5	2.5	2	3.5
Score	22.5	12.5	10	8	15



**THANK YOU**