



P2000 Comparison

Benchmarks - Embedded Computing System

ADVANTECH

NEXCOM

inCOZE

Lanner

SINTRONES
In-Vehicle Computing

High Performance & Slim Industrial PC



**Advantech
ARK-2150F**



**Nexcom
VTC7210-BK**



**Cincoze
P2002**



**Lanner
LEC-2580**



**SINTRONES
VBOX-3610**

Performance & Function

Company		Cincoze	Advantech	Nexcom	Lanner	SINTRONES
Picture						
Series		P2002 series	ARK-2000 series	VTC series	Embedded Box PCs	In-Vehicle Computing
Models		P2002	ARK-2150F	VTC-7210	LEC-2580	VBOX-3610
Performance	Intel Core i3/i5/i7 Generation	6th	3rd	4th	6th	5th
	Memory Support	DDR4 32 GB	DDR3L 8 GB	DDR3L 16 GB	DDR3L 16 GB	DDR3L 16 GB
	Low Power Consumption	15W	17W	15W	15W	15W
Function	AT/ATX Mode Selectable	V	V			
	RAID	V		V	V	V
	Display	1x VGA 1x DVI-D	1x VGA 1x HDMI/DP	1x VGA 1x DP	2x HDMI	1x VGA 1x DVI-I 1x DP
	USB	5	6	4	6	4
	COM	6	4	3	4	4
	LAN	2	4	2	6	2
	HDD	1x External 1x Internal	1x Internal	2x External	2x Internal	2x External
Mechanical	Dimensions	254.5 X 220 X 54	264.5 X 133 X 75.1	260 X 206 X 79.5	210 X 143.8 X 60	250 X 150 X 55
Score		4	3	3	4.5	3.5

Application-driven

Company		Cincoze	Advantech	Nexcom	Lanner	SINTRONES
Picture						
Series		P2002 series	ARK-2000 series	VTC series	Embedded Box PCs	In-Vehicle Computing
Models		P2002	ARK-2150F	VTC-7210	LEC-2580	VBOX-3610
Application-driven	Power over Ethernet (POE)	V			V	
	Power over Serial (POS)	V		V		
	Digital I/O	V	V	V		V
	Ignition Sensing	V		V		V
	Remote Power On/Off	V		V	V	
	Instant Reboot	V				
Score		5	1	4	3	3

Modular & Expandable

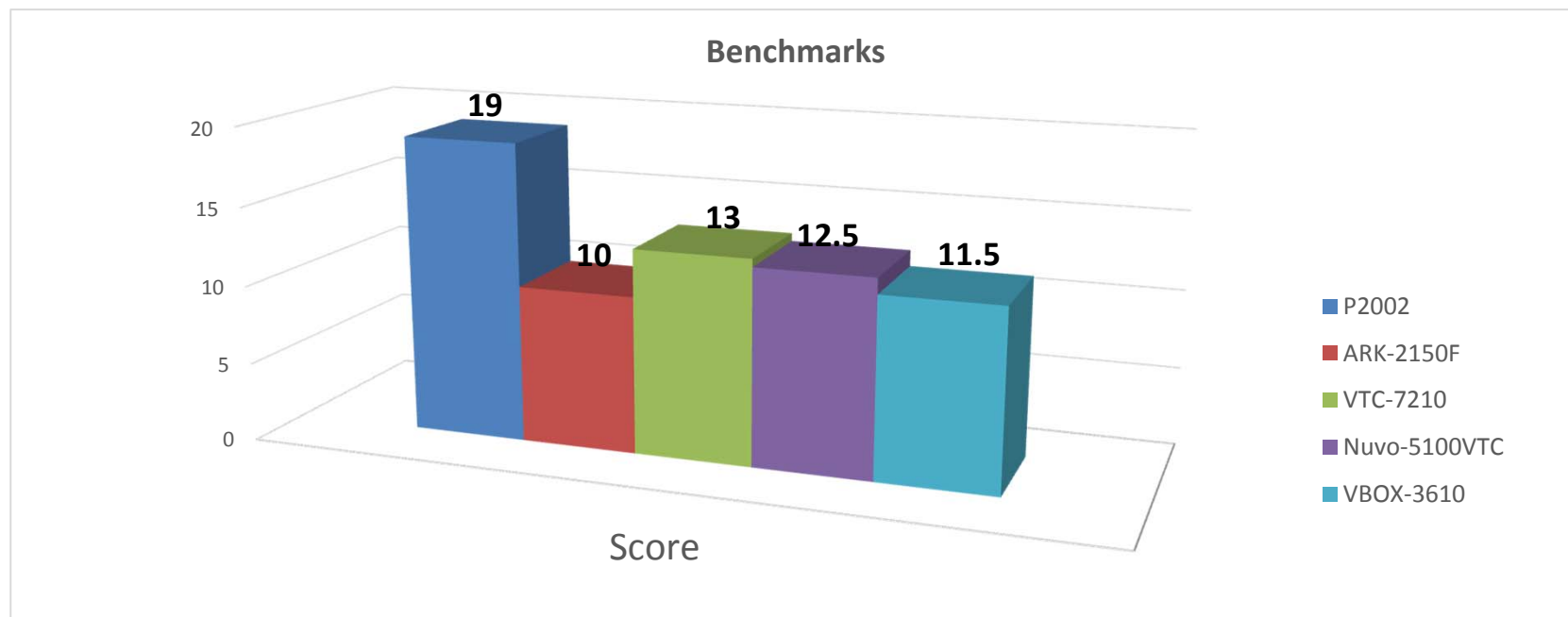
Company		Cincoze	Advantech	Nexcom	Lanner	SINTRONES
Picture						
Series		P2002 series	ARK-2000 series	VTC series	Embedded Box PCs	In-Vehicle Computing
Models		P2002	ARK-2150F	VTC-7210	LEC-2580	VBOX-3610
Modular & Expandable	Function Modules (CFM Technology)	V			V	
	Mini PCIe Expansion	2	3	4	2	Unknown
	Mini PCIe Module Kit	V				
	PCI/PCIe Expansion	1				
	Internal MSATA	2	1		1	
Score		5	3	3	3	2

Rugged & Reliable

Company		Cincoze	Advantech	Nexcom	Lanner	SINTRONES
Picture						
Series		P2002 series	ARK-2000 series	VTC series	Embedded Box PCs	In-Vehicle Computing
Models		P2002	ARK-2150F	VTC-7210	LEC-2580	VBOX-3610
Rugged Design	Fan-less design	V	V	V	V	V
	Cable-less design	V				
	Jumper-less design	V				
	Shock & Vibration	50G/ 5G	50G/ 5G	20G/ 2G	Unknown/ 0.5G	15G/ 2.5G
Wide Operating Temperature	Wide Temperature	-25 ~ 70 °C	-20 ~ 60 °C	-30 ~ 55 °C	0 ~ 60 °C	-40 ~ 70 °C
Reliable Power	Wide range DC power input	9~48V	12~24V	9~36V	12~30V	9~36V
	Reverse power input protection	V				
Industrial Protection	OVP	V				
	OCP	V		V		
	ESD protection	V				
	Surge protection	V				
Battery-free Design	Super Cap	V				
Score		5	3	3	2	3

Comparison Chart

	P2002	ARK-2150F	VTC-7210	LEC-2580	VBOX-3610
Performance & Function	4	3	3	4.5	3.5
Application-driven	5	1	4	3	3
Modular & Expandable	5	3	3	3	2
Rugged & Reliable	5	3	3	2	3
Score	19	10	13	12.5	11.5



Benchmarks Industrial Panel PC



Industrial Panel PC



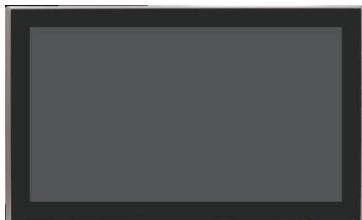
**Avalue
LPC series**



**IEI
PPC series**



**Cincoze
CV-100/P2002
series**



**Aplex
ARCHMI series**



**Nexcom
IPPC series**

Performance & Function

Company		Cincoze	Avalue	IEI	Aplex	Nexcom
Picture						
Series		CV-100/P2002 series	LPC series	PPC series	ARCHMI series	IPPC series
Models		CV-117/P2002	LPC-1532	PPC-F17A	ARCHMI-917P	IPPCA1770
Performance	Intel Core i3/i5/i7 Generation	6th	6th	4th	4th	4th
	Desktop / Mobile Solution	Mobile	Mobile	Desktop	Mobile	Desktop
	Memory Support	DDR4 32 GB	DDR4 32 GB	DDR3 16 GB	DDR3L 8 GB	DDR3L 16 GB
	Low Power Consumption	15W	15W	65W	15W	35W
Function	Touch	V	Resistive Only	V	V	V
	OSD Function	V				V
	AT/ATX Mode Selectable	V	V	V		
	RAID	V				V
	Display	1x VGA 1x DVI-D	1x HDMI	1x VGA 1x HDMI		1x DVI-I 1x DP
	USB	5	4	6	4	4
	COM	6	2	5	4	2
	LAN	2	2	2	2	2
	HDD	2	1	1	1	2
Score		4	3.5	4.5	3	4

Application-driven

Company		Cincoze	Avalue	IEI	Aplex	Nexcom
Picture						
Series		CV-100/P2002 series	LPC series	PPC series	ARCHMI series	IPPC series
Models		CV-117/P2002	LPC-1532	PPC-F17A	ARCHMI-917P	IPPCA1770
Application-driven	Power Over Ethernet (POE)	✓				
	Power Over Serial (POS)	✓				✓
	Digital I/O	✓				✓
	Ignition Sensing	✓				
	Remote Power On/Off	✓				
	Instant Reboot	✓				
Score		5	0	0	0	2

Modular & Expandable

Company		Cincoze	Avalue	IEI	Aplex	Nexcom
Picture						
Series		CV-100/P2002 series	LPC series	PPC series	ARCHMI series	IPPC series
Models		CV-117/P2002	LPC-1532	PPC-F17A	ARCHMI-917P	IPPCA1770
Modular & Expandable	PCI/PCle Slot	1				2
	Mini PCle Slots	3	2	2	2	2
	Mini PCle Module Kit	V				V
	Internal MSATA	2	1	1		1
Score		4	2	2	2	5

Flexible

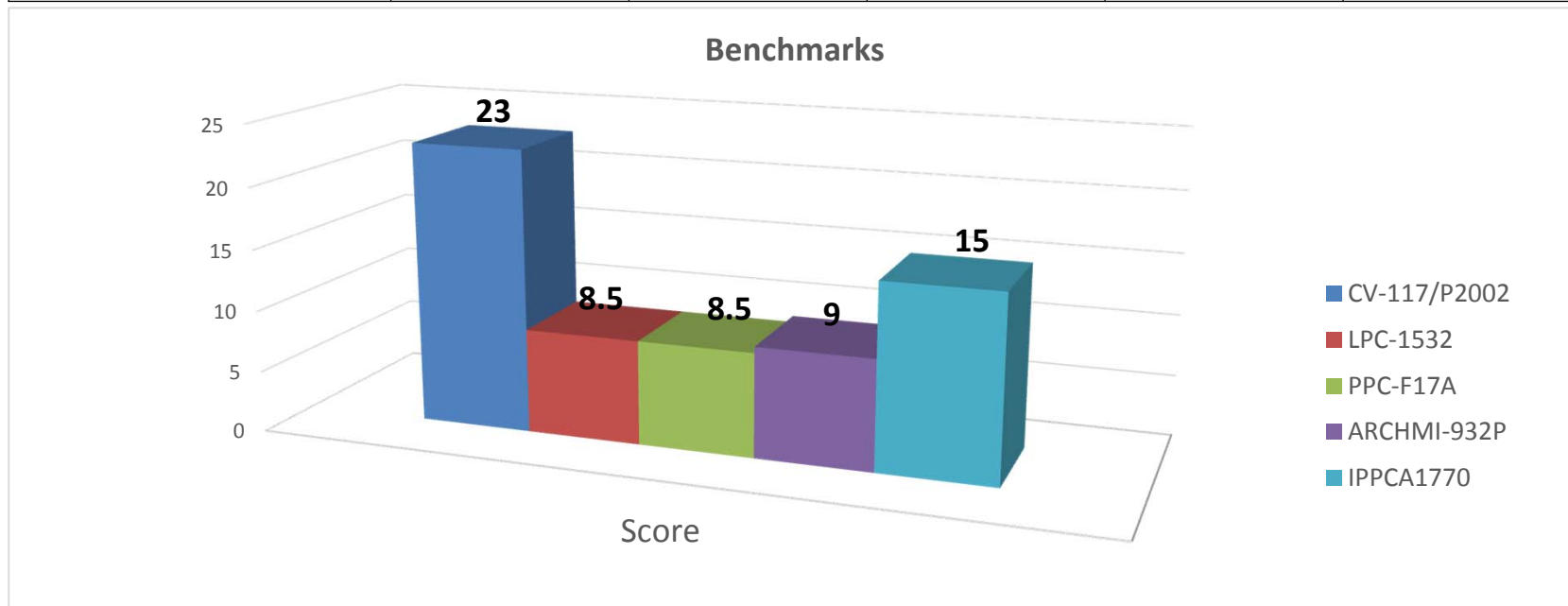
Company		Cincoze	Avalue	IEI	Aplex	Nexcom
Picture						
Series		CV-100/P2002 series	LPC series	PPC series	ARCHMI series	IPPC series
Models		CV-117/P2002	LPC-1532	PPC-F17A	ARCHMI-917P	IPPCA1770
Flexible (CDS)	Modular	✓				
	Configured on Demand	✓				
	Scalable	✓				
Score		5	0	0	0	0

Rugged & Reliable

Company		Cincoze	Avalue	IEI	Aplex	Nexcom
Picture						
Series		CV-100/P2002 series	LPC series	PPC series	ARCHMI series	IPPC series
Models		CV-117/P2002	LPC-1532	PPC-F17A	ARCHMI-917P	IPPCA1770
Rugged Design	Fan-less design	V	V		V	V
	Aluminum Die-Casting Frame	V	V	V	V	V
	Temp	-10 ~ 60 °C	-10 ~ 50 °C	-10 ~ 50 °C	0 ~ 50 °C	-10 ~ 50 °C
	IP65 Front Protection	V	V	V	V	IP66
Reliable Power Input	Wide range DC power input	9~48V	12~26V	24V	9~36V	12~30V
Industrial Protection	Over voltage protection	V				
	Over current protection	V				
	ESD protection	V				
	Surge protection	V				
Battery-free Design	Super Cap	V				
Score		5	3	2	4	4

Comparison Chart

	CV-117/P2002	LPC-1532	PPC-F17A	ARCHMI-932P	IPPCA1770
Performance & Function	4	3.5	4.5	3	4
Application-driven	5	0	0	0	2
Modular & Expandable	4	2	2	2	5
Flexible	5	0	0	0	0
Rugged & Reliable	5	3	2	4	4
Score	23	8.5	8.5	9	15



THANK YOU



***ch*COZE**