

VIA Embedded Boards Comparison

Form Factor	Pico-ITX	Nano-ITX				Mini-ITX				
Model	EPIA PX	EPIA NR	EPIA NX	EPIA N	EPIA NL	EPIA SN	EPIA EX	EPIA EK	EPIA EN	EPIA CN
Fanless	No	Yes	Yes or No	Yes or No	Yes or No	Yes or No	Yes or No	Yes	Yes or No	Yes or No
Processor	NanoBGA2 C7®	NanoBGA2 C7®	NanoBGA2 C7®/ Eden™	Luke CoreFusion™	Luke CoreFusion™	NanoBGA2 C7®	NanoBGA2 C7®	Luke CoreFusion™	NanoBGA2 C7®/ Eden™	NanoBGA2 C7®
North Bridge	VX700	CX700M2	CX700/ CX700M2			CN896			CN700	CN700
South Bridge				VT8237R Plus	VT8237R Plus	VT8251	CX700M2	VT8237R Plus	VT8237R Plus	VT8237R Plus
Graphics	Integrated VIA UniChrome™ Pro II 3D/2D AGP Graphics with MPEG-2/4 & WMV9 Decoding Acceleration	Integrated VIA UniChrome™ Pro II 3D/2D AGP Graphics with MPEG-2 Decoding Acceleration	Integrated VIA UniChrome™ Pro II 3D/2D AGP Graphics with MPEG-2/4 & WMV9 Decoding Acceleration	Integrated VIA UniChrome™ Pro AGP Graphics with MPEG-2/4 Decoding Acceleration	Integrated VIA UniChrome™ Pro AGP Graphics with MPEG-2/4 Decoding Acceleration	Integrated VIA Chrome9™ HC 3D/2D Graphics with DirectX® 9.0 compatible and MPEG-2 Decoding Acceleration.	Integrated VIA UniChrome™ Pro II 3D/2D Graphics with MPEG-2/4 & WMV9 Decoding Acceleration	Integrated VIA UniChrome™ Pro AGP Graphics with MPEG-2/4 Decoding Acceleration	Integrated VIA UniChrome™ Pro AGP Graphics with MPEG-2 Decoding Acceleration	Integrated VIA UniChrome™ Pro AGP Graphics with MPEG-2 Decoding Acceleration
System Memory	1 x DDR2 533 SODIMM socket (Up to 1GB)	1 x DDR2 533 SODIMM socket (Up to 1GB)	1 x DDR2 533 SODIMM socket (Up to 1GB)	1 x DDR2 533 SODIMM socket (Up to 1GB)	1 x DDR400 SODIMM socket (Up to 1GB)	2 x DDR2 667/533 DIMM sockets (Up to 4G, see NOTE)	1 x DDR2 533 DIMM socket (Up to 1GB)	1 x DDR400 DIMM socket (Up to 1GB)	1 x DDR2 533 DIMM socket (Up to 1GB)	1 x DDR2 533 DIMM socket (Up to 1GB)
USB	4 x USB 2.0	6 x USB 2.0	6 x USB 2.0	6 x USB 2.0	8 x USB 2.0	6 x USB 2.0	6 x USB 2.0	8 x USB 2.0	6 x USB 2.0	8 x USB 2.0
Audio	HD	HD	HD	6 Channel	6 Channel	HD	HD	6 Channel	6 Channel	6 Channel
LAN	10/100Mbps	10/100Mbps (optional Gigabit)	10/100Mbps (optional Gigabit)	10/100Mbps	10/100Mbps	10/100Mbps + Gigabit	10/100Mbps (optional Gigabit)	2 x 10/100Mbps (1 optional Gigabit)	Gigabit	10/100Mbps
IDE	1 x ATA 100/133	1 x ATA 100/133	1 x ATA 100/133	2 x ATA 100/133	2 x ATA 100/133	1 x ATA 100/133	1 x ATA 100/133	2 x ATA 100/133	2 x ATA 100	2 x ATA 100/133
SATA	1	2	2	1	1	4	2	2	2	2
PCI	N/A	1 Mini-PCI	1 Mini-PCI	1 Mini-PCI	1 Mini-PCI	1 Mini-PCI 1 PCI-E x16	1	1	1	1
Com Port	1 (pin header)	2 (pin headers)	Optional 4 COM ports support is available through LPC interface with a daughter card	Optional 4 COM ports support is available through LPC interface with a daughter card		2	Optional 4 COM ports support is available through LPC interface with a daughter card	4 (3 pin headers)	2 (1 pin header)	1
TV Out	Yes (an add-on card is required)	N/A	Yes (HDTV resolution)	Yes (HDTV resolution)	Yes (HDTV resolution)	N/A	Yes (HDTV resolution)	N/A	Yes (HDTV resolution)	Yes
IEEE 1394	N/A	N/A	N/A	N/A	N/A	N/A	1 (pin header)	N/A	1 (pin header)	N/A
Operating Temperature	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C
Optional Accessories	PUSB-01 PWB-N550 WLAN USB Module	LPC-01 LPC-02 PUSB-01 PWB-N550 WLAN Min-PC WLAN USB Module	LPC-01 LPC-02 LVDS-08 PUSB-01 PWB-N550 WLAN Min-PC WLAN USB Module	DVI-03 LPC-01 LPC-02 LVDS-07 PUSB-01 PWB-N550 WLAN Min-PC WLAN USB Module	LPC-01 LPC-02 LVDS-07 PUSB-01 PWB-N550 WLAN Min-PC WLAN USB Module	DVI-04 LPC-01 LPC-02 LVDS-08 PUSB-01 PWB-M120 WLAN Min-PC WLAN USB Module	EXT-PCI LPC-01 LPC-02 LVDS-08 PUSB-01 PWB-M120 WLAN USB Module	EXT-PCI DVI-03 LPC-01 LVDS-07 PUSB-01 PWB-M120 WLAN USB Module	EXT-PCI DVI-03 LPC-01 LVDS-07 PUSB-01 PWB-M120 WLAN USB Module	EXT-PCI PUSB-01 PWB-M120 WLAN USB Module

NOTE: System resources (such as BIOS, PCI, AGP, etc.) require physical memory address locations that reduce available memory addresses above 3GB. This may result in less than 4GB of memory being available to the operating system and applications.

VIA Embedded Boards Comparison

Form Factor	Mini-ITX						
Model	EPIA LT	EPIA LN	EPIA PE	EPIA M	EPIA ML	EPIA	VB7001
Fanless	Yes or No	Yes	No	No	Yes or No	Yes or No	No
Processor	NanoBGA2 C7®	NanoBGA2 C7®	C3®	EBGA C3®/ Eden™	EBGA C3®/ Eden™	EBGA C3®/ Eden™	NanoBGA C7®-D
North Bridge	CX700/ CX700M2	CN700	CLE266	CLE266	CLE266	PLE133	CN700
South Bridge		VT8237R Plus	VT8235M	VT8235M	VT8235M	VT8231	VT8237R Plus
Graphics	Integrated VIA UniChrome™ Pro AGP Graphics with MPEG-2 Decoding Acceleration	Integrated VIA UniChrome™ Pro AGP Graphics with MPEG-2 Decoding Acceleration	Integrated VIA UniChrome™ AGP Graphics with MPEG-2 Decoding Acceleration	Integrated VIA UniChrome™ AGP Graphics with MPEG-2 Decoding Acceleration	Integrated VIA UniChrome™ AGP Graphics with MPEG-2 Decoding Acceleration	Integrated AGP 4X Graphic Engine	Integrated VIA UniChrome™ Pro AGP Graphics with MPEG-2 Decoding Acceleration
System Memory	1 x DDR2 533 DIMM socket (Up to 1GB)	1 x DDR2 533 DIMM socket (Up to 1GB)	1 x DDR266 DIMM socket (Up to 1GB)	1 x DDR266 DIMM socket (Up to 1GB)	1 x DDR266 DIMM socket (Up to 1GB)	2 x PLE133 DIMM sockets (Up to 512MB)	1 x DDR2 533 DIMM socket (Up to 1GB)
USB	6 x USB 2.0	8 x USB 2.0	6 x USB 2.0	4 x USB 2.0	4 x USB 2.0	4 x USB 1.1	6 x USB 2.0
Audio	HD	6 Channel	2 Channel	6 Channel	6 Channel	2 Channel	6 Channel
LAN	2 x 10/100Mbps (1 optional Gigabit)	10/100Mbps	2 x 10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps
IDE	1 x ATA 100/133	2 x ATA 100/133	2 x ATA 100/133	2 x ATA 100/133	2 x ATA 100/133	2 x ATA 100/133	2 x ATA 100/133
SATA	2	2	N/A	N/A	N/A	N/A	2
PCI	1	1	1	1	1	1	1
Com Port	4 (3 pin headers)	1	4 (3 pin headers)	2 (1 pin headers)	2 (1 pin header)	1	1
TV Out	Optional	Yes	N/A	Yes	Yes (specific SKU)	N/A	Yes
IEEE 1394	N/A	N/A	N/A	2 (pin header)	N/A	N/A	N/A
Operating Temperature	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 45°C
Optional Accessories	EXT-PCI LPC-01 LPC-02 PUSB-01 PWB-M120 WLAN USB Module	EXT-PCI LPC-01 LPC-02 PUSB-01 PWB-M120 WLAN USB Module	EXT-PCI DVI-01 LVDS-05 PUSB-01 WLAN USB Module	DVI-01 EXT-PCI LVDS-05 PUSB-01 WLAN USB Module	EXT-PCI PUSB-01 WLAN USB Module	EXT-PCI PUSB-01 WLAN USB Module	EXT-PCI PUSB-01 PWB-M120 WLAN USB Module