

Graphics Cards

PCIe x16

PCIe x1

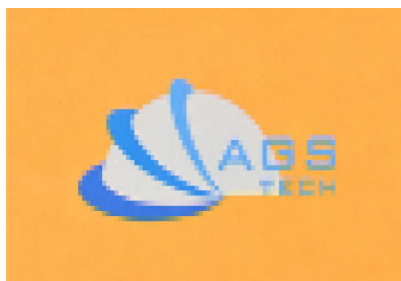
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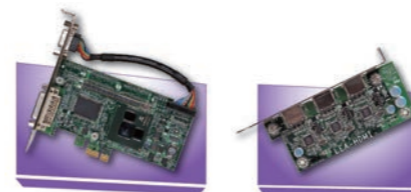
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Graphics Cards PCIe x16



	PCIe x16 Graphics Card	Daughterboard (option)	Daughterboard (option)	PCIe x16 Graphics Card
Model	LEA6x6 Series	LEA-HDMI	LEA-DP	LS3440
Graphics Chip	AMD E6x60	N/A	N/A	S3 Graphics Chrome® 440 GTX
Memory	Integrated 1GB GDDR5 (LEA676) Integrated 512MB GDDR5 (LEA646)	N/A	N/A	GDDR3 16Mx32 up to 256MB
Display Output	3 HDMI	3 HDMI	3 DisplayPort	DVI
Maximum Resolution	1920 x 1080	N/A	N/A	2560 x 1600
Interface	PCIe x16	N/A	N/A	PCIe x16
Dimensions	167.63mm x 111.17mm	45mm x 106.65mm	45mm x 106.65mm	144.7mm x 105mm

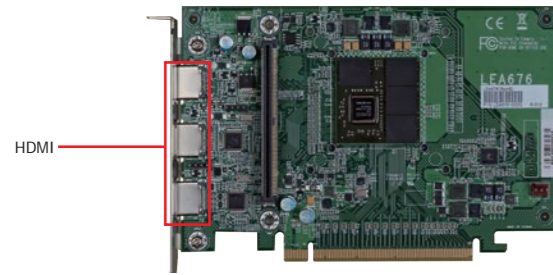
Graphics Cards PCIe x1



	PCIe x1 Graphics Card	Daughterboard (option)
Model	LAX100	EXT-LAX100
Graphics Chip	AXELL AG10	SiI164 HDMI transmitter SiI7170 DVI transmitter
Memory	Integrated 512Mbit Video RAM	N/A
Display Output	DVI, VGA	HDMI, DVI
Maximum Resolution	1920 x 1200 (1 screen) 1280 x 1024 (3 screens) 1024 x 768 (4 screens)	N/A
Interface	PCIe x1	N/A
Dimensions	120mm x 69mm	100mm x 90mm

PCIe x16
Graphics Cards
 PCIe x1
Graphics Cards

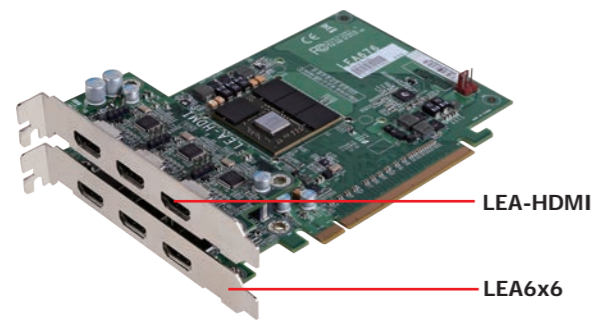
LEA6x6 Series



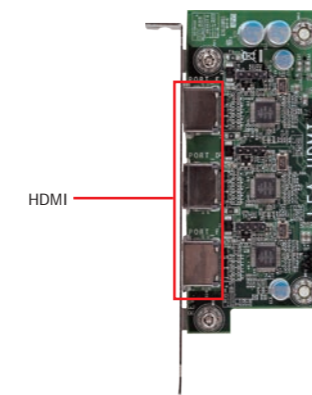
Features

GPU	AMD E6x60
MEMORY	Integrated 1GB GDDR5 (LEA676) Integrated 512MB GDDR5 (LEA646)
PORTS	3 HDMI
INTERFACE	PCIe x16
DIMENSIONS	167.63mm x 111.17mm (6.60" x 4.37")

Model Name	GPU	Graphics Board	Daughterboard	Total Display Ports
LEA676-3H	AMD E6760	LEA676	N/A	3 HDMI
LEA676-6H		LEA676	LEA-HDMI (with 3 HDMI)	6 HDMI
LEA676-3H3DP		LEA676	LEA-DP (with 3 DisplayPort)	3 HDMI, 3 DisplayPort
LEA646-3H	AMD E6460	LEA646	N/A	3 HDMI

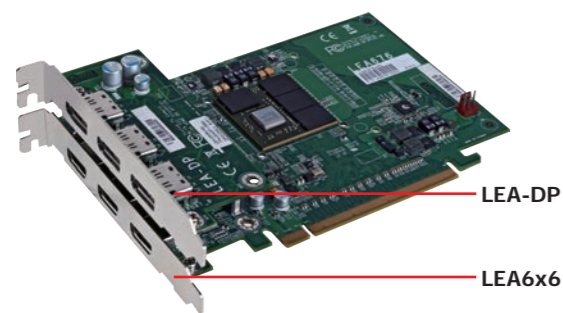


LEA-HDMI Daughterboard (optional)

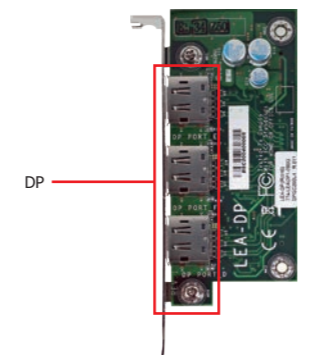


I/O PORTS
• 3 HDMI

DIMENSIONS
• 45mm (1.77") x 106.65mm (4.20")



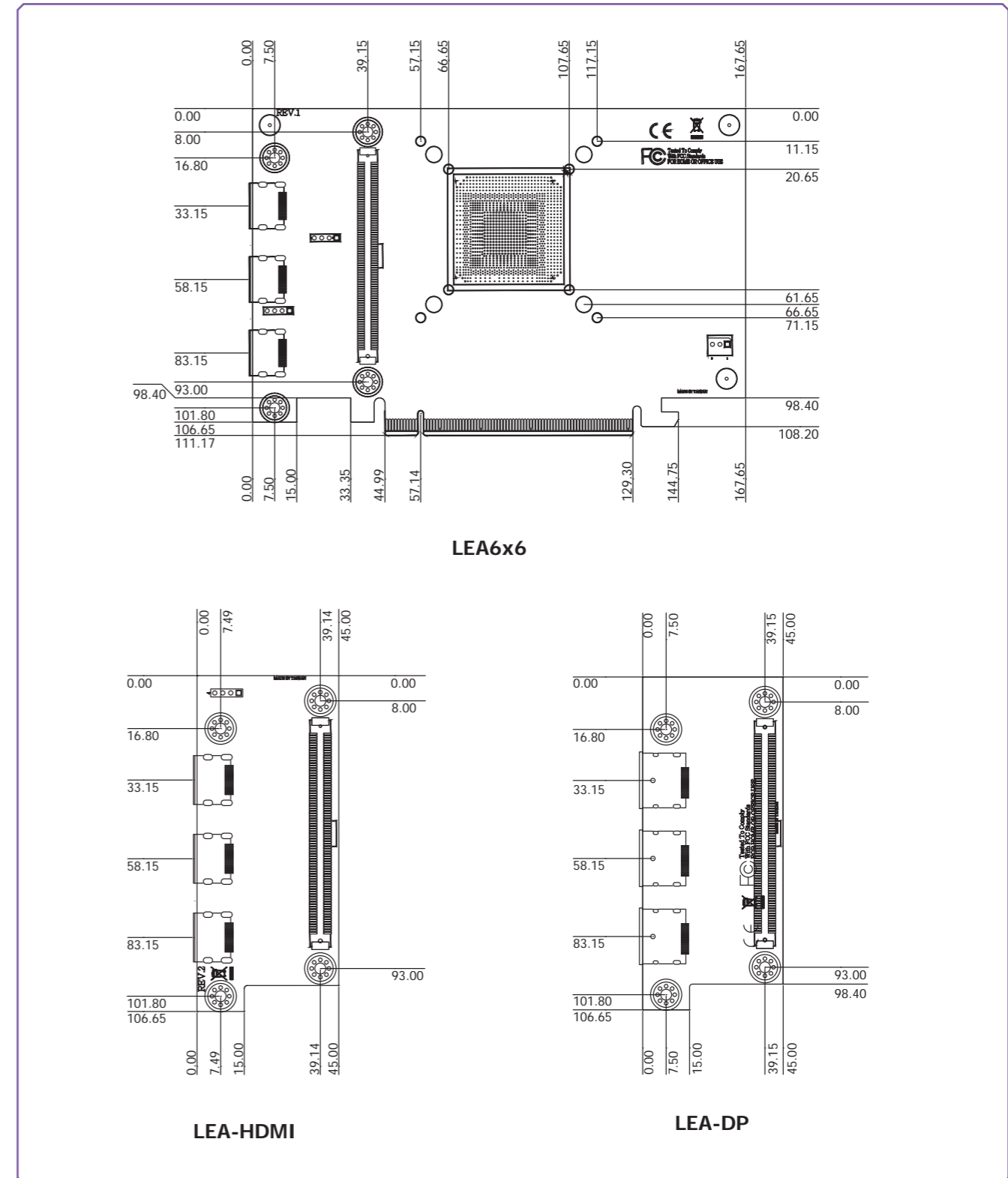
LEA-DP Daughterboard (optional)



I/O PORTS
• 3 DisplayPort

DIMENSIONS
• 45mm (1.77") x 106.65mm (4.20")

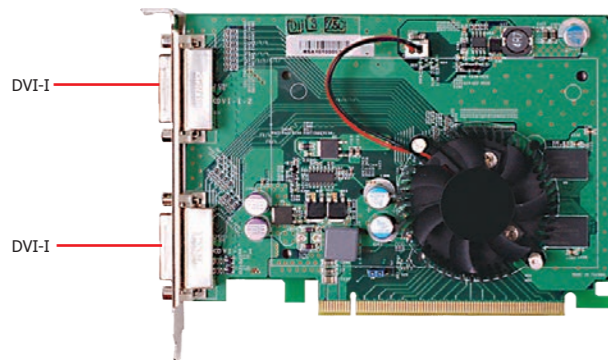
Mechanical Drawing



Packing List

• 1 Graphics Card
• 1 DVD
• 1 QR (Quick Reference)

LS3440



► Features

CHIP	S3 Graphics Chrome® 440 GTX
MEMORY	GDDR3 16Mx32 256MB maximum memory
PORTS	2 DVI-I
INTERFACE	PCIe x16
DIMENSIONS	144.7mm x 105mm

► Specifications

CHIPSET

- S3 Graphics Chrome® 440 GTX

MEMORY

- Memory type
 - GDDR3 16Mx32
- Maximum memory
 - Dual rank 16Mx32 256MB

DRIVERS SUPPORTED

- Supports 32-bit (X86) OS only

FEATURES

- H.264 Hardware Acceleration
 - H.264/AVC - MPEG-4 Advanced Video Coding (AVC) hardware acceleration
 - High profile level 4.1 for HD Premium video content
- VC1 Hardware Acceleration
 - VC1 hardware acceleration based on SMPTE 421M and its derivative standards
 - Advanced Profile at Level 3 for HD Premium video content
- MPEG-2 Hardware Acceleration
 - Bitstream parser and slice level decoder
 - Inverse quantization
 - 8x8 Inverse Discrete transform conforming to IEEE standard specification
 - Motion compensation
- DX10.1 Unified Shader Architecture - Shader Model 4.1
- PCI Express 2.0 compliant
 - 5Gb/s Gen 2 technology
 - Dynamic lane (x16/x8/x4/x1) switching supported for flexible speed configuration and power management
- ChromotionHD 2.0 Programmable Video Engine
 - H.264, MPEG-2 HD, WMV9-HD, DivX, and VC1 acceleration
 - Supports Protected Video Playback
 - DirectX-VA 2.0 compatible
 - Per pixel motion adaptive de-interlacing, noise removal, cadence detection and correction
 - Gamma correction and white/black point enhancement
 - 4x4 programmable kernel filter video scaling
 - Microsoft Video Mixing Renderer (VMR 7,9)
 - ArtisticLicense™ real-time video effects: De-Blocking, Sharpening, Embossing, Neon-Edges, & Softening
- Advanced Display Features
 - Independent hot-plug detection for both DVI displays
 - Integrated 2x single-link DVI up to 1920x1200
 - Integrated dual 10-bit CRT outputs up to 2048x1536@75Hz
- Power Management Features
 - PowerWise Architecture with aggressive dynamic system and sub-system power minimization

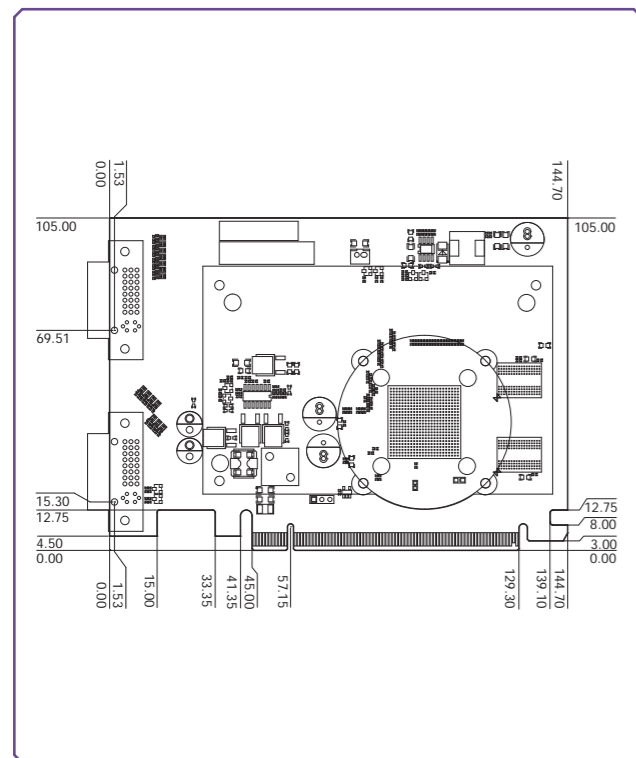
DISPLAY CONNECTION CAPABILITY

- Dual DVI-I ports

DIMENSIONS

- 144.7mm x105mm

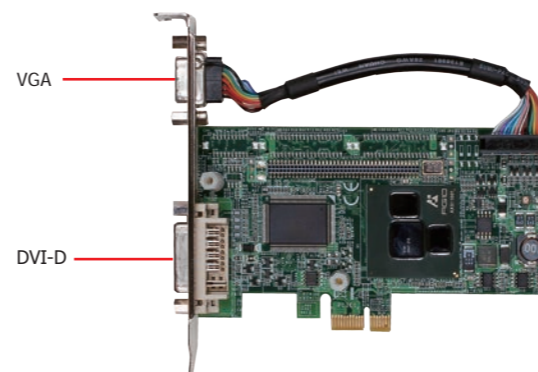
► Mechanical Drawing



► Packing List

- 1 Graphics Card
- 1 DVD
- 1 QR (Quick Reference)

LAX100



EXT-LAX100 Daughterboard (optional)



CHIP

- SiI164 HDMI transmitter
- SiI7170 DVI transmitter

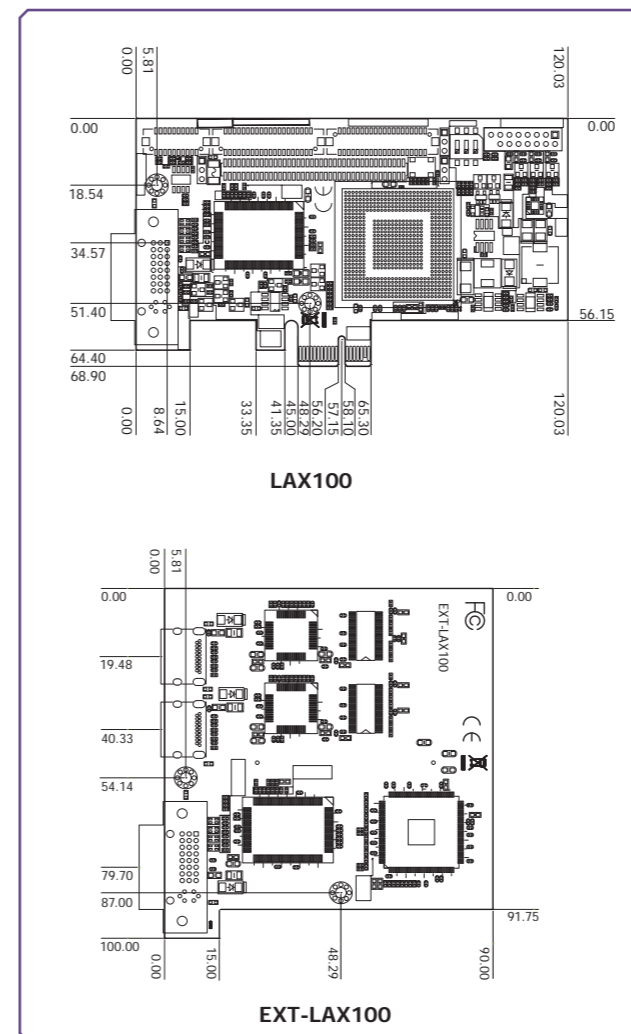
I/O PORTS

- 2 HDMI, 1 DVI-D

DIMENSIONS

- 100mm (3.94") x 90mm (3.55")

► Mechanical Drawing



► Features

CHIP	AXELL AG10
MEMORY	Integrated 512Mbit Video RAM
PORTS	1 VGA, 1 DVI-D
INTERFACE	PCIe x1
DIMENSIONS	120mm x 69mm (4.7" x 2.7")

► Specifications

CHIPSET

- AXELL AG10 graphics chip

MEMORY

- Integrated 512Mbit Video RAM (VRAM) on the graphics chip

PCI EXPRESS INTERFACE

- PCI Express x1 interface
- Compliant with PCI Express 1.1

2D DRAW ENGINE

- Low power hardware acceleration 2D engine

DRAW FUNCTIONS

- BLT functions
- Primitive drawing functions (point, line, triangle, rectangle)
- Triangle texture mapping
- Rectangle and triangle gradation drawing
- Pixel blending (alpha blending, raster operation)
- Stencil operation

DRAW CAPABILITY

- Supports 16,777,216 colors

DISPLAY RESOLUTIONS

- Maximum 1920 x 1200 dots, 60Hz (when a single screen is displayed)
 - A screen of this resolution can be displayed together with a screen of 640 x 480 dots or smaller (total of two screens)
- Maximum 1280 x 1024 dots, 60Hz (when three screens are displayed)
- Maximum 1024 x 768 dots, 60Hz (when four screens are displayed)

DISPLAY FEATURES

- Overlay (bilinear scaling, four independent displays)
- Hardware cursor (8 bit gradation stencil operation, four independent displays)

VIDEO OUTPUT INTERFACE

- 1 DB-15 analog VGA port
- 1 24-pin digital DVI-D port
- 1 80-pin connector for the optional EXT-LAX100 daughterboard
 - SiI164 HDMI transmitter
 - SiI7170 DVI transmitter
 - 2 HDMI ports
 - 1 24-pin digital DVI-D port
 - PCB dimensions: 100mm (3.94") x 90mm (3.55")

TEMPERATURE

- 0°C to 60°C

HUMIDITY

- 10% to 90%

DIMENSIONS

- 120mm (4.7") x 69mm (2.7")

► Packing List

- 1 Graphics Card
- 1 DVD
- 1 QR (Quick Reference)