



Gaming
AXIOMTEK

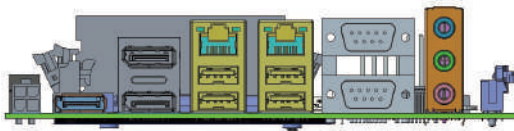
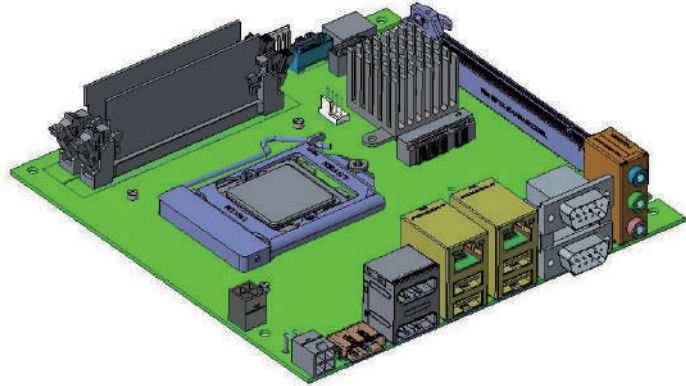
gaming.axiomtek.com

GMB830

8th Generation Intel® Core™
Mini-ITX Gaming Board

Features

- High performance Intel® platform
- GLI verified TrustedBoot
- Extension PCIe I/F for Gaming I/O module
- Optional 9-bit serial port for SAS 6.02
- Lifetime long-term supply



IoT Solutions
Alliance



System

CPU	8th Generation Intel® Core™ i7/i5/i3 Intel® Pentium® processors Gold/ Celeron, LGA1151
Memory	2 x DDR4 SO-DIMM up to 2400/2666 MHz, Max up to 64 GB, ECC Supported
Chipset	Intel® H310 / Q370 Chipset
BIOS	AMI -uEFI BIOS Optional security boot function
Watchdog Timer	1 sec to 255 min
Expansion	1 x PCIe X16 slot 1 x Full-size Mini-PCIe socket (PCIe X1 & USB signal) 2 x PCIe golden finger for Axiomtek Gaming I/O Module
Power Input	DC +12V Input, ± 5%
Dimensions	170 mm x 170 mm
Operating Temperature	0 °C to 60 °C (32 °F to 140 °F)
Storage Temperature	-40 °C to 85 °C
Humidity	10 % to 90 %, non-condensing
Security	Onboard TPM 2.0 Axiomtek TrustedBoot for BIOS security boot

Display

Graphic	Intel® UHD Graphics 610/630
Interface	Q370 supports 3 x DP++ port H310 supports 2 x DP++ port With 4096 x 2160 resolution per display output

Software

OS	Windows® 10 Enterprise & IoT Enterprise, 64-bit
Others	SAS 6.02 COM port driver provided (via Gaming I/O module)

Ordering Information

GMB830-310	8th Generation Intel® Core™ Mini-ITX board with H310 PCH, 3 x DP++, 2 x GLAN, 6 x COM, 8 x USB, 12V DC-in
GMB830-370	8th Generation Intel® Core™ Mini-ITX board with Q370 PCH, 3 x DP++, 2 x GLAN, 6 x COM, 8 x USB, 12V DC-in

I/O

USB	4 x USB 3.0 for external connector 4 x USB 2.0 for internal pin header
Serial Interface	2 x Full RS-232 DB9 (COM1 supports RS-232/422/485) 1 x Full RS-232 for internal box header 3 x Simple RS-232 for internal pin header (Two of them support ccTalk)
Audio	External line-in/Line-Out/Mic-In phone jack (5.1 Ch) Internal stereo 6W + 6W audio amplified outputs Internal SPDIF pin header
Storage	3 x SATAIII ports Two of them support pin-7 power SATA DOM
Ethernet	2 x GbE LAN ports



* All specifications and photos are subject to change without notice.

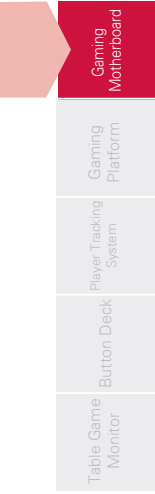
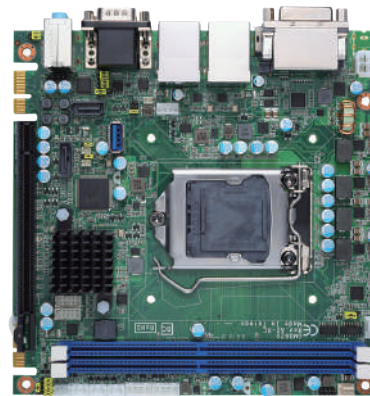
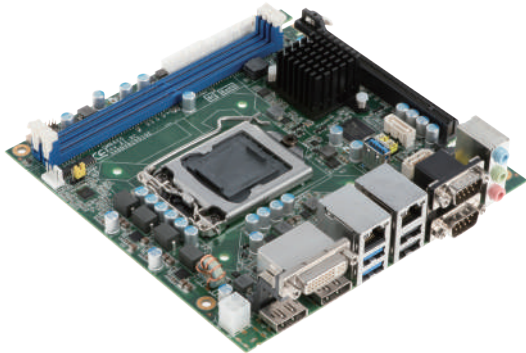
For more information please contact: gaming@axiomtek.com.tw No. 1820-0001801

GMB820

6/7th Generation Intel® Core™
Mini-ITX Board

Features

- High performance Intel® platform
- GLI verified TrustedBoot
- Extension PCIe I/F for Gaming I/O module
- Optional 9-bit serial port for SAS 6.02
- Lifetime long-term supply



System

CPU	6/7th Generation Intel® Core™ i7/i5/i3, Intel® Pentium® processors and Intel® Celeron® processors
Memory	2 x DDR4 U-DIMM up to 2133 MHz, max. up to 32 GB
Chipset	Intel® H110 PCH
BIOS	AMI -uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog timer	1 sec to 255 min
Expansion	PCIe x16 slot
Power Input	DC +12V
Dimensions	170 mm x 170 mm
Operating Temperature	0 °C to 60 °C (32 °F to 140 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption

I/O

USB	3 x USB 3.0 6 x USB 2.0
Serial Interface	2 x RS-232 DB9 (1 x RS-422/485 configurable) 4 x RS-232 (1 x ID003, 2 x ccTalk configurable)
Audio	HD audio 5.1 channels Line-out or stereo 6W + 6W audio amplified output
Storage	2 x SATA III, SATA DOM supported
Ethernet	2 x GbE LAN port



Display

Graphic	6th Generation Intel® HD Graphics 510/530 7th Generation Intel® HD Graphics 610/630 DirectX® 12, OpenGL® 4.4, and OpenCL™ 2.0
Interface	Support dual display, optional inputs are as below: - 2 x DP++ - 1 x DVI-D

Software

OS	Windows® 7, 10 Linux kernel 3.x and above version
Others	SAS 6.02 COM port driver provided (via Gaming I/O module)

Ordering Information

GMB820-110	6/7th Generation Intel® Core™ Mini-ITX board with H110 PCH, 2 x DP++, DVI-D, 9 x USB
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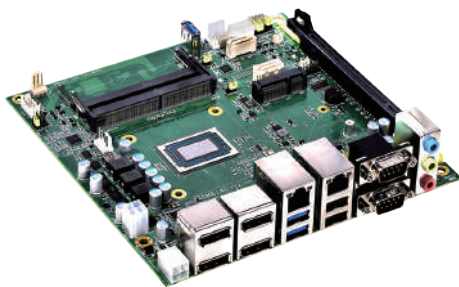
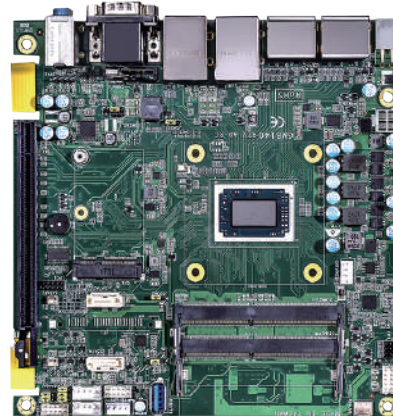
For more information please contact: gaming@axiomtek.com.tw No. 1820-0001801

GMB140

AMD Ryzen™ Embedded V1000 APU
Mini-ITX Board

Features

- High performance AMD platform
- GLI verified TrustedBoot
- Extension PCIe I/F for gaming I/O module
- Optional support 9-bit serial port for SAS 6.02
- Lifetime long-term supply



System

APU	AMD Ryzen™ Embedded V1000 SoCs "Zen" CPU
Memory	2 x DDR4 SO-DIMM up to 3200 MHz, max. up to 32 GB ECC Supported
BIOS	AMI -uEFI TrustedBoot (Bios secure boot) secure hash and public key algorithm
Watchdog Timer	1 sec to 255 min
Expansion	1 x PCIe x16 (supports PCIe x8 signal only), 1x Mini-PCIe
Power Input	DC +12 V
Dimensions	170 mm x 170 mm
Operating Temperature	0 °C to 60 °C (32 °F to 140 °F)
Humidity	10 % to 90 %, non-condensing
Security	- TPM 2.0 engine - RSA2048 and AES256 hybrid encryption

I/O

USB	3 x USB 3.0 (1 x internal) 4 x USB 2.0 (2 x internal)
Serial Interface	2 x RS-232 DB9 (1 x RS-422/485 configurable) 4 x RS-232 (1 x ID003, 2 x ccTalk configurable)
Audio	- HD audio 5.1 channels Line-out and stereo 6 W+6 W audio amplified output - S/PDIF output
Storage	2 x SATA III port or 1 x SATA III + 1 x CFast socket
Ethernet	2 x GbE LAN port
GPIO	8-bit GPIO

Display

Graphic	AMD high performance Radeon™ VEGA series graphics
Interface	4 x DP++, up to 4 independent displays with 4096 x 2160 resolution per display output

Software

OS	Windows® 10 IoT Enterprise, Linux
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Ordering Information

GMB140-1807	Mini-ITX Board with AMD Ryzen™ Embedded V1807 4 x DP++, 6 x COM, 7x USB, 2 x GLAN, Audio PCIe x16 and Mini-PCIe, DC 12V input
GMB140-1756	Mini-ITX Board with AMD Ryzen™ Embedded V1756 4 x DP++, 6 x COM, 7 x USB, 2 x GLAN, Audio, PCIe x16 and Mini-PCIe, DC 12V input
GMB140-1605	Mini-ITX Board with AMD Ryzen™ Embedded V1605 4 x DP++, 6 x COM, 7 x USB, 2 x GLAN, Audio, PCIe x16 and Mini-PCIe, DC 12V input
GMB140-1202	Mini-ITX Board with AMD Ryzen™ Embedded V1202 4 x DP++, 6 x COM, 7 x USB, 2 x GLAN, Audio, PCIe x16 and Mini-PCIe, DC 12V input



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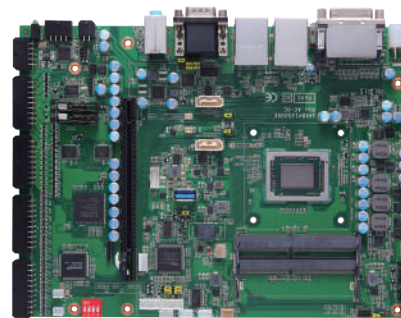
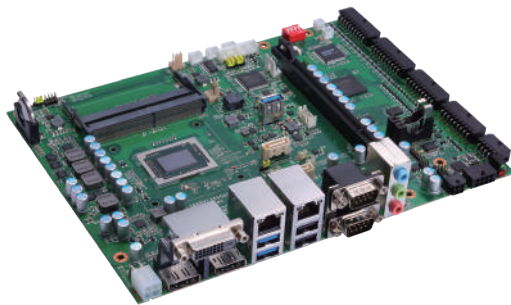
For more information please contact: gaming@axiomtek.com.tw No. 1140-0001701

GMB135

AMD Embedded R-Series SoC
All-In-One Gaming Board

Features

- High performance AMD platform
- GLI verified TrustedBoot and TrustedData
- Supports 9-bit serial port for SAS 6.02
- Lifetime long-term supply



System

CPU	AMD Embedded R-Series SoC, formerly codenamed "Merlin Falcon"
Memory	2 x DDR4 SO-DIMM up to 2133 MHz, max. up to 32 GB
BIOS	AMI -uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog timer	1 sec to 255 min
Expansion	PCIe x16 slot (x8 Gen3 signal)
Power Input	DC +12 V
Dimensions	170 mm x 227 mm
Operating Temperature	0 °C to 60 °C (32 °F to 140 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption

I/O

USB	3 x USB 3.0 4 x USB 2.0
Serial Interface	2 x RS-232 DB9 (1 x RS-422/485 configurable) 3 x RS-232 (1 x ID003, 2 x ccTalk configurable) 2 x RS-232 (hardware 9-bit supported)
Audio	HD audio 5.1 channels Line-out or stereo 6 W + 6 W audio amplified output
Storage	2 x SATA III, SATADOM supported
Ethernet	2 x GbE

Display

Graphic	AMD Radeon™ HD10000 Series DirectX® 12, OpenGL® 4.2, and OpenCL™ 1.2
Interface	2 x DP++ 1 x DVI-D



Gaming Function

Intrusion Detection	8 x intrusion detection (2 x internal, 6 x external) Operates with and without AC Power Logs date/time of last 200 events
Digital Input	32 x protected input 4 x DIP switch
Digital Output	29 x 500mA/30V OC output (8 x meter configurable) 3 x 3A/30V OC output
NVRAM	4 MB (2 or 8 MB optional) TrustedData, hardware bank mirroring and CRC
Software Support	Library, demo program, sample code provided

Software

OS	Windows® 7, 10 Linux kernel 3.x and above version
Gaming API	Windows/Linux sample code and demo program provided
Others	SAS 6.02 COM port driver provided

Ordering Information

GMB135-421	AMD Embedded R-Series SoC Gaming Board with RX-421 quad-core APU, 2 x DP, DVI-D, 4 MB NVRAM
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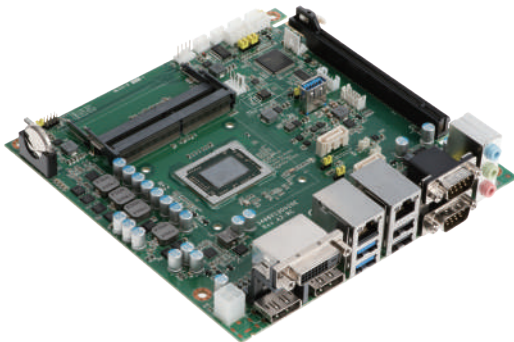
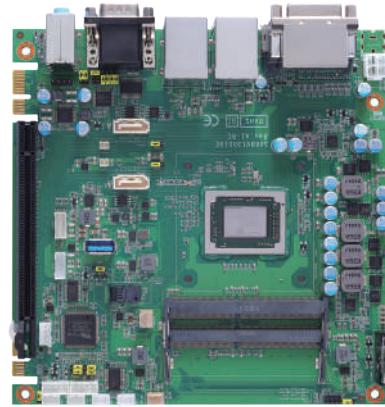
For more information please contact: gaming@axiomtek.com.tw No. 1135-0001801

GMB130

AMD Embedded R-Series SoC
Mini-ITX Board

Features

- High performance AMD platform
- GLI verified TrustedBoot
- Extension PCIe I/F for gaming I/O
- Optional support 9-bit serial port for SAS 6.02
- Lifetime long-term supply



Gaming
Motherboard

Gaming
Platform

Player Tracking
System

Button Deck

Table Game
Monitor

System

CPU	AMD Embedded R-Series SoC, formerly codenamed "Merlin Falcon"
Memory	2 x DDR4 SO-DIMM up to 2400 MHz, max. up to 32 GB
BIOS	AMI -uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog Timer	1 sec to 255 min
Expansion	PCIe x16 slot (x8 Gen3 signal)
Power Input	DC +12V
Dimensions	170 mm x 170 mm
Operating Temperature	0 °C to 60 °C (32 °F to 140 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption

I/O

USB	3 x USB 3.0 5 x USB 2.0
Serial Interface	2 x RS-232 DB9 (1 x RS-422/485 configurable) 4 x RS-232 (1 x ID003, 2 x ccTalk configurable)
Audio	HD audio 5.1 channels Line-out or stereo 6 W + 6 W audio amplified output
Storage	2 x SATA III, SATADOM supported
Ethernet	2 x GbE LAN port



Display

Graphic	AMD Radeon™ HD10000 Series DirectX® 12, OpenGL® 4.2, and OpenCL™ 1.2
Interface	2 x DP++ 1 x DVI-D

Software

OS	Windows® 7, 10 Linux kernel 3.X and above version
Gaming API	SAS 6.02 COM port driver provided (via gaming I/O module)

Ordering Information

GMB130-421	AMD Embedded R-Series SoC Mini-ITX board with RX-421 quad-core APU, 2 x DP++, DVI-D, 8 x USB
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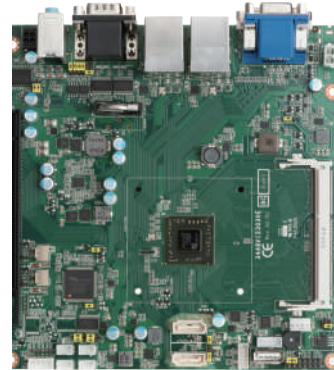
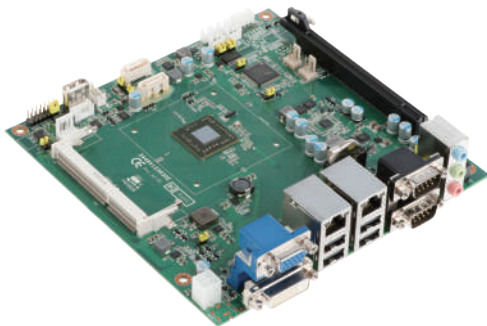
For more information please contact: gaming@axiomtek.com.tw No. 1130-0001801

GMB123

AMD Embedded G-Series SoC
Mini-ITX Board

Features

- Entry level AMD platform
- GLI verified TrustedBoot
- Advanced security
- Lifetime long-term supply



System

CPU	AMD Embedded G-Series SoC
Memory	1 x DDR3/L SO-DIMM up to 1600 MHz, max. up to 8 GB
BIOS	AMI -uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog timer	1 sec to 255 min
Expansion	PCIe x16 slot (x4 Gen2 signal)
Power Input	DC +12V
Dimensions	170 mm x 170 mm
Operating Temperature	0 °C to 60 °C (32 °F to 140 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security (optional) - TPM engine - RSA2048 and AES256 hybrid encryption

I/O

USB	8 x USB 2.0
Serial Interface	2 x RS-232 DB9 (1 x RS-422/485 configurable) 4 x RS-232 (1 x TTL, 1 x ccTalk configurable)
Audio	HD audio 5.1 channels Line-out or stereo 6 W + 6 W audio amplified output
Storage	2 x SATA III, SATADOM supported
Ethernet	2 x GbE LAN port (1 x optional)

Software

OS	Windows® XP, 7 Linux kernel 3.0 and above version
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Display

Graphic	AMD Radeon™ HD8000 Series DirectX® 11.1, OpenGL® 4.2, and OpenCL™ 1.2
Interface	1 x VGA 1 x DVI-D

Ordering Information

GMB123-210J	AMD Embedded G-Series SoC Mini-ITX board with GX-210J dual-core APU, 1 x GbE, fanless Optional features: TPM, 1 x GbE
GMB123-222	AMD Embedded G-Series SoC Mini-ITX board with GX-222 dual-core APU, 2 x GbE Optional features: TPM
GMB123-424	AMD Embedded G-Series SoC Mini-ITX board with GX-424 quad-core APU, 2 x GbE Optional features: TPM



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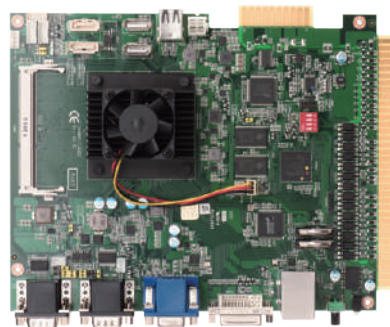
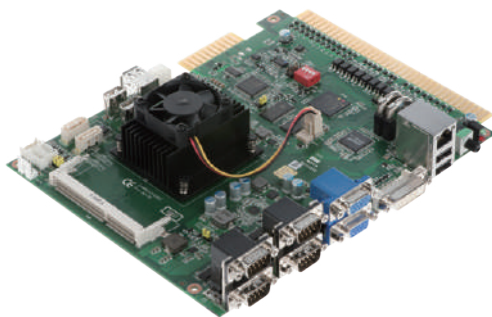
For more information please contact: gaming@axiomtek.com.tw No. 1123-0001801

GMB121

AMD Embedded G-Series SoC
Gaming Board

Features

- Entry level AMD platform
- GLI verified TrustedBoot and TrustedData
- Advanced security
- Lifetime long-term supply



System

CPU	AMD Embedded G-Series SoC
Memory	1 x DDR3/L SO-DIMM up to 1600 MHz, max. up to 8 GB
BIOS	AMI -uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog Timer	1 sec to 255 min
Power Input	DC +12V
Dimensions	175 mm x 210 mm
Operating Temperature	0 °C to 60 °C (32 °F to 140 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption

I/O

USB	8 x USB 2.0
Serial Interface	1 x RS-232 DB9 (RS-422/485 configurable) 3 x RS-232 DB9 (1 x TTL configurable) 2 x ccTalk
Audio	Stereo 6 W + 6 W audio amplified output Audio volumn VR supported
Storage	2 x SATA III, SATADOM supported
Ethernet	1 x GbE

Display

Graphic	AMD Radeon™ HD8000 DirectX® 11.1, OpenGL® 4.2, and OpenCL™ 1.2
Interface	2 x VGA 1 x DVI-D

Gaming Function

Intrusion detection	8 x intrusion detection (2 x internal, 6 x golden finger) Operates with and without AC Power Logs date/time of last 50 events
Digital Input	24 x photo-coupler input 4 x DIP switch
Digital Output	27 x 500mA/30V OC output (8 x meter configurable) 3 x 3A/30V OC output
NVRAM	1 MB (512 KB or 2 MB optional) TrustedData, hardware bank mirroring and CRC
Software Support	Library, demo program, sample code provided

Software

OS	Windows® XP, 7 Linux kernel 3.0 and above version
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Ordering Information

GMB121-210J	AMD Embedded G-Series SoC gaming board with GX-210J dual-core APU, VGA, DVI, fanless
GMB121-222	AMD Embedded G-Series SoC gaming board with GX-222 dual-core APU, VGA, DVI
GMB121-424	AMD Embedded G-Series SoC gaming board with GX-424 quad-core APU, VGA, DVI



* All specifications and photos are subject to change without notice.

For more information please contact: gaming@axiomtek.com.tw No. 1121-0001801

Aura⁺

AMD Ryzen™ Embedded V1000
High-Level Gaming Platform

Features

- High-end AMD all-in-one gaming platform
- GLI verified TrustedBoot and TrustedData
- Easy installation and gaming library integration
- Supports up to 9 displays outputs
- Advanced security
- Lifetime 10 years long-term supply



Gaming Motherboard
Gaming Platform
Player Tracking System
Button Deck
Table Game Monitor

System

APU	AMD Ryzen™ Embedded V1000 SoCs “Zen” CPU Up to Four Cores / Eight threads
Memory	2 x DDR4-3200 SO-DIMM socket support up to 32 GB ECC Supported
BIOS	AMI -uEFI GLI verified TrustedBoot support * Secure hash and public key algorithm validation
Watchdog Timer	1 sec to 255 min
Power Input	DC + 12V to 24V input with 8-pin power connector
Dimensions	280 mm (W) x 222 mm (D) x 218 mm (H)
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption Integrity security - Unique key protection

Communication Interface (I/O)

USB	1 x USB 3.0 (internal) 1 x USB 3.0 in the front 6 x USB 2.0 on backplane
Serial Interface	4 x RS-232 DB9 (1 x RS-422/485 configurable) 4 x RS-232 with box header - 2 x ccTalk configurable 3 x SAS Port, Hardware 9-bit support for SAS6.02
Audio	- HD audio 5.1 channels Line-out - 2.1 channels stereo R/L@16W, Sub@40W audio amplified output
Storage	- 2 x SATA III, Pin-7 Power supply SATADOM supported 2 x CFast socket in front - 256Bytes user EEPROM storage - 1 x removable driver bay for 2.5” HDD (Optional, and share with SATA 2)
Ethernet	2 x GbE LAN port on backplane
SPI/ I2C	Header on backplane

Gaming Function

Intrusion Detection	14 x intrusion detection (13 x backplane, 1 x external) Operates without AC Power (Battery backup). Logs date/time of last 200 events Battery voltage monitor
Digital Input	64 x protected 3V / CMOS input 4 x DIP switch
Digital Output	61 x 1A/30V, Open Drain power MOSFET driver (8x meter configurable) 3 x 3A/30V, Open Drain power MOSFET driver
NVRAM	Up to 16MB of NVRAM, optional MRAM up to 4MB; Battery backed SRAM, continuous working time of 18,000hrs; Support battery voltage monitor; TrustedData, hardware bank mirroring and CRC

Display

Graphic	AMD Radeon™ VEGA GPU, up to 11 compute units
Interface	4 x DP++, up to four independent displays
Optional Discrete Graphic	Support AMD Embedded Radeon™ E9260 MXM 3.0 Type A graphic module for 5 MiniDP output

Software

OS	Windows® 10 IoT Enterprise , Linux
Gaming API	Example code and demo software available
Communication & Peripheral Protocols	SAS 6.02 COM port driver



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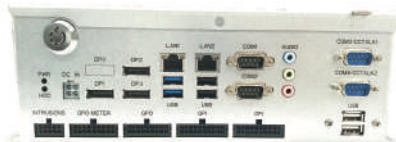
For more information please contact: gaming@axiomtek.com.tw No. 3610-1351701

Halo

AMD Ryzen™ Embedded V1000 Processor
Gaming Platform

Features

- All-In-One AMD gaming platform
- GLI verified Trustedboot and TrustedData
- Supports upto four independent displays
- Advanced security



System

CPU	AMD Ryzen™ Embedded V1000 Processor
Memory	2 x DDR4 SO-DIMM up to 3200 MHz, max. up to 32 GB ECC Supported
BIOS	AMI -uEFI BIOS support secure boot Hardware validation of BIOS, BIOS validation of boot driver, Write-Protection of BIOS ROM
Watchdog timer	1 sec to 255 min
Expansion	1 x Mini-PCIe
Power Input	DC +12 V, +/- 5%
Dimensions	273 mm (W) x 182 mm (D) x 90 mm (H)
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security - TPM 2.0 engine - RSA2048 and AES256 hybrid encryption

I/O

USB	3 x USB 3.0 (1 x internal) 4 x USB 2.0
Serial Interface	1 x Full RS232 + 1 x RS232 / 422/ 485 2 x Simple RS232 (ccTalk configurable)
Audio	HD audio 5.1 channels Line-out Optional Stereo 6 W + 6 W audio amplified output
Storage	2 x SATAIII port, optional for 2 x CFast sockets
Ethernet	2 x GbE LAN port

Software

OS	Windows® 10 IoT Enterprise, Linux Ubuntu 16.04
Gaming API	Windows/Linux sample code , Demo program provided
Others	SAS 6.02 COM port driver provided

Display

Graphic	Integrated AMD Radeon™ VEGA GPU with up to 11 Compute Units.
Interface	4 x DP++, up to 4 independent displays with 4096 x 2160 resolution per display output H.2651 (10-bit) Decode & (8-bit) Encode, VP9 Decode

Gaming Function

Intrusion Detection	6 x intrusion detection logs date/ time of last 200 events.
Digital Input	32-ch 3V CMOS inputs
Digital Output	29-ch outputs (8-ch meter configurable) - Output type: Open Drain Power MOSFET driver - Output driving capacity: 1A/ 30V 3-ch outputs - Output type: Open Drain Power MOSFET driver - Output driving capacity: 3A/ 30V
Batter Backed NVRAM	Optional 8MB (optional up to 16MB)
Switch	4-ch DIP switch for counter
SAS Port	1 x 9-bit serial port support SAS 6.02 for option
Software Support	Library, Demo Program, Sample code provided

Ordering Information

AGP510-140-1807	AMD Ryzen™ Embedded V1807APU, 4 x DP++, 4 x COM 7 x USB, 8MB NVRAM, GPIO 32-in/32-out, Audio with Amp. DC 12V in
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* All specifications and photos are subject to change without notice.

For more information please contact: gaming@axiomtek.com.tw No. 3130-1401801

dBOX610-135

AMD Embedded R-Series SoC
Gaming Platform

Features

- High-end All-In-One gaming platform
- GLI verified TrustedBoot and TrustedData
- Supports 9-bit serial port for SAS 6.02
- Lifetime long-term supply



System

CPU	AMD Embedded R-Series SoC, formerly codenamed- "Merlin Falcon"
Memory	2 x DDR4 SO-DIMM up to 2400 MHz max. up to 32 GB
BIOS	AMI -uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog timer	1 sec to 255 min
Expansion	PCIe x 16 slot
Power Input	DC +12V
Dimensions	240 mm (W) x 210 mm (D) x 130 mm (H)
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption

I/O

USB	3 x USB 3.0 (1 x internal) 4 x USB 2.0
Serial Interface	2 x RS-232 DB9 (1 x RS-422/485 configurable) 3 x RS-232 (1 x ID003, 2 x ccTalk configurable) 2 x RS-232 (hardware 9-bit supported)
Audio	HD audio 5.1 channels Line-out or stereo 6W + 6W audio amplified output
Storage	2 x SATA III, SATADOM supported
Ethernet	2 x GbE

Display

Graphic	AMD Radeon™ HD10000 Series DirectX® 12, OpenGL® 4.2, and OpenCL™ 1.2
Interface	2 x DP++ 1 x DVI-D



Gaming Fuction

Intrusion Detection	8 x intrusion detection (2 x internal, 6 x external) Operates with and without AC Power Logs date/time of last 200 events
Digital Input	32 x protected input 4 x DIP switch
Digital Output	29 x 500mA/30V OC output (8 x meter configurable) 3 x 3A/30V OC output
NVRAM	4 MB (2 MB or 8 MB optional) TrustedData, hardware bank mirroring and CRC
Software Support	Library, demo program, sample code provided

Software

OS	Windows® 7, 10 Linux kernel 3.x and above version
Gaming API	Windows®/Linux sample code and demo program provided
Others	SAS 6.02 COM port driver provided

Ordering Information

dBOX610-135-421	AMD embedded R-Series SoC gaming platform with RX-421 quad core APU, 2 x DP++, DVI-D, 7 x USB
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* All specifications and photos are subject to change without notice.

For more information please contact: gaming@axiomtek.com.tw No. 3610-1351701

dBOX300

High-Level Gaming Platform
Optional AMD/ Intel Mainboard Available

Features

- High-end AMD/ Intel gaming platform
- GLI verified TrustedBoot
- Supports PCIe graphic card
- Lifetime long-term supply



System	dBOX300-140	dBOX300-830
CPU	AMD Ryzen™ Embedded V1000 SoCs "Zen" CPU	8th Generation Intel® Core™ i7/i5/i3 Intel® Pentium® processors Gold/ Celeron, LGA1151
Memory	2 x DDR4 SO-DIMM up to 2133 MHz Max. up to 32GB, ECC supported	2 x DDR4 SO-DIMM up to 2400/2666 MHz, Max up to 64 GB, ECC Supported
BIOS	AMI -uEFI, TrustedBoot, secure hash and public key algorithm validation	
Watchdog Timer	1 sec to 255 min	
Expansion	1 x PCIe x16 slot, 1 x Mini PCIe (supports Low-Profile card / PCIe X8 signal only)	1 x PCIe X16 slot 1 x Mini-PCIe socket (PCIe X1 & USB signal)
Security	TPM engine / RSA2048 and AES256 hybrid encryption	
Power Input	DC +12 V, ± 5%	
Dimensions	250 mm (W) x 211 mm (D) x 105 mm (H)	
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)	
Humidity	10 % to 90 %, non-condensing	

Display

Graphic	AMD Radeon™ HD10000 Series DirectX® 12, OpenGL® 4.2, and OpenCL™ 1.2	Intel® UHD Graphics 610/630
Interface	4 x DP++, up to 4 independent displays with 4096 x 2160 resolution per display output	Q370 supports 3 x DP++ port/ H310 supports 2 x DP++ port With 4096 x 2160 resolution per display output

I/O

Mainboard I/O	GMB140	GMB830
System I/O	3 x USB 2.0 / 4 x RS-232 (1 x ID003, 2 x ccalc configurable)	

Software

OS	Linux Windows® 10 Enterprise & IoT Enterprise, 64-bit
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dBOX310-140

AMD Ryzen™ Embedded V1000 APU
Gaming Platform

Features

- High-end All-In-One AMD gaming platform
- GLI verified Trustedboot and TrustedData
- Supports PCIe graphic card
- Lifetime long-term supply



System

CPU	AMD Ryzen™ Embedded V1807 APU
Memory	2 x DDR4 SO-DIMM up to 3200 MHz, max. up to 32 GB
BIOS	AMI -uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog timer	1 sec to 255 min
Expansion	1 x PCIe x16 slot, 1 x Mini-PCIe (supports Low-Profile card / PCIe X8 signal only)
Power Input	DC +12V
Dimensions	240 mm (W) x 210 mm (D) x 105 mm (H)
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption

I/O

USB	3 x USB 3.0 (1 x internal) 4 x USB 2.0
Serial Interface	2 x RS-232 DB9 (1 x RS-422/485 configurable) 3 x RS-232 (1 x ID003, 2 x ccTalk configurable) 1 x SAS (hardware 9-bit supported)
Audio	HD audio 5.1 channels Line-out or stereo 6 W + 6 W audio amplified output
Storage	2 x SATAIII port support SATADOM with 7-pin power/ 1 x SATAIII + 1 x CFast socket (BOM optional) 2 x CFast card (Via SATA to CFast adapter)
Ethernet	2 x GbE LAN port



Display

Graphic	AMD high performance Radeon™ VEGA series graphics
Interface	4 x DP++, up to 4 independent displays with 4096 x 2160 resolution per display output

Gaming Function

Intrusion Detection	8 x intrusion detection (2 x internal, 6 x external) Operates with and without AC Power Logs date/time of last 200 events
Digital Input	32 x protected input 4 x DIP switch
Digital Output	29 x 500 mA/30V OC output (8 x meter configurable) 3 x 3A/30V OC output
NVRAM	4 MB (2 or 8 MB optional) TrustedData, hardware bank mirroring and CRC
Software Support	Windows/Linux sample code and demo program provided SAS 6.02 COM port driver provided

Software

OS	Windows® 10 IoT Enterprise, Linux
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Ordering Information

dBOX310-140-1807	AMD Ryzen™ Embedded V1807APU, 4 x DP++, 5 x COM 7 x USB, 2 x GLAN, Audio, Mini-PCIe, DC 12 V input
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* All specifications and photos are subject to change without notice.

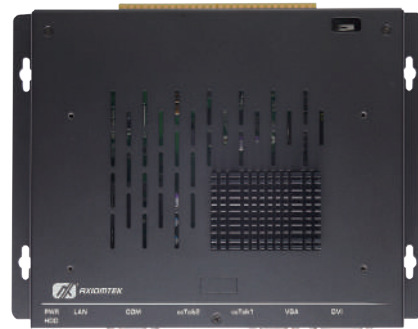
For more information please contact: gaming@axiomtek.com.tw No. 3130-1401801

dBOX125

AMD Embedded G-Series SoC
Comma 6a / AWP
Italian Gaming Platform

Features

- Entry level AMD platform
- Lifetime long-term supply
- Fanless Design
- Easy gaming library integration
- Advanced security



System

CPU	AMD Embedded G-Series SoC
Memory	1 x DDR3/L SO-DIMM up to 1600 MHz, max. up to 8 GB
BIOS	AMI -uEFI
Watchdog Timer	1 sec to 255 min
Expansion	1 x Smart Card
Power Input	DC +12V
Dimensions	240 mm (W) x 180 mm (D) x 29 mm (H)
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security (optional) - TPM engine - RSA2048 and AES256 hybrid encryption Integrity security - Unique key protection

I/O

USB	N/A
Serial Interface	1 x AAMS port 3 x ccTalk (1 x JAMMA)
Audio	Stereo 6 W + 6 W audio amplified output
Storage	1 x SATA II, SATADOM supported 1 x Full-Size SD card 1 x uSD card (optional)
Ethernet	1 x GbE (optional)

Display

Graphic	AMD Radeon™ HD8000 Series DirectX® 11.1, OpenGL® 4.2, and OpenCL™ 1.2
Interface	1 x VGA 1 x DVI-D

Gaming Function

Intrusion Detection	6 x intrusion detection (2 x internal, 4 x JAMMA) Operates with and without AC Power Logs date/time of last 50 events
Digital Input	11 x photo-coupler input
Digital Output	15 x 500mA/30V OC output
NVRAM	512 KB (1 MB or 2 MB optional) TrustedData, hardware bank mirroring and CRC
Software Support	Library, demo program, sample code provided

Software

OS	Windows® XP, 7 Linux kernel 3.x and above version
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Ordering Information

dBOX125-210K	AMD Embedded G-Series SoC Italian gaming board with GX-210K dual-core APU, fanless Optional features: TPM, uSD, GbE
dBOX125-210J	AMD Embedded G-Series SoC Italian gaming board with GX-210J dual-core APU, fanless Optional features: TPM, uSD, GbE
dBOX125-217	AMD Embedded G-Series SoC Italian gaming board with GX-217 dual-core APU, with active fan Optional features: TPM, uSD, GbE



* All specifications and photos are subject to change without notice.

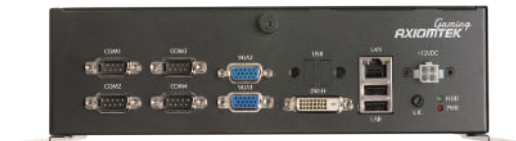
For more information please contact: gaming@axiomtek.com.tw No. 3125-0001801

dBOX121

AMD Embedded G-Series SoC
Gaming Platform

Features

- Entry level AMD platform
- Lifetime long-term supply
- GLI verified TrustedBoot and TrustedData
- Easy gaming library integration
- Advanced security



System

CPU	AMD Embedded G-Series SoC
Memory	1 x DDR3/L SO-DIMM up to 1600 MHz max. up to 8 GB
BIOS	AMI -uEFI TrustedBoot, secure hash and public key algorithm validation
Watchdog Timer	1 sec to 255 min
Power Input	DC +12V
Dimensions	225 mm (W) x 175 mm (D) x 70 mm (H)
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Humidity	10 % to 90 %, non-condensing
Security	Anti-clone security - TPM engine - RSA2048 and AES256 hybrid encryption

I/O

USB	6 x USB 2.0
Serial Interface	1 x RS-232 DB9 (RS-422/485 configurable) 3 x RS-232 DB9 (1 x TTL configurable)
Audio	Stereo 6 W + 6 W audio amplified output Audio volumn VR supported
Storage	2 x SATA III, SATADOM/2.5" SSD/CFast supported
Ethernet	1 x GbE

Display

Graphic	AMD Radeon™ HD8000 Series DirectX® 11.1, OpenGL® 4.2, and OpenCL™ 1.2
Interface	2 x VGA 1 x DVI-D



Gaming Function

Intrusion Detection	8 x intrusion detection (2 x internal, 6 x golden finger) Operates with and without AC Power Logs date/time of last 50 events
Digital Input	24 x photo-coupler input 4 x dip switch
Digital Output	27 x 500mA/30V OC output (8 x meter configurable) 3 x 3A/30V OC output
NVRAM	1 MB (512 KB or 2 MB optional) TrustedData, hardware bank mirroring and CRC
Software Support	Library, demo program, sample code provided

Software

OS	Windows® XP, 7 Linux kernel 3.x and above version
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Ordering Information

dBOX121-210J	AMD Embedded G-Series SoC gaming platform with GX-210J dual-core APU, VGA,DVI, fanless
dBOX121-222	AMD Embedded G-Series SoC gaming platform with GX-222 dual-core APU, VGA,DVI
dBOX121-424	AMD Embedded G-Series SoC gaming platform with GX-424 quad-core APU, VGA,DVI



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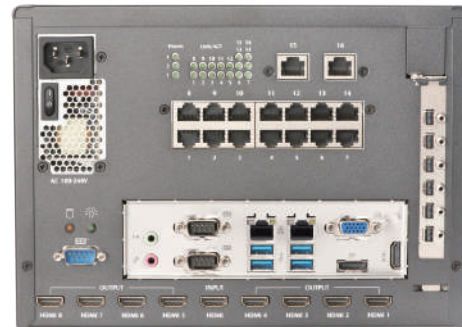
For more information please contact: gaming@axiomtek.com.tw No. 3121-0001801

dBOX700-500

6th/7th Generation Intel® Core™
Jackpot Controller

Features

- High performance Intel® platform
- GLI verified TruustedBoot
- Supports 8 HDMI and 16 Ethernet
- Supports PCIe x16 graphic card
- Lifetime long-term supply



Gaming
Motherboard

Gaming
Platform

Player Tracking
System

Burton Deck

Table Game
Monitor

System

CPU	6/7th Generation Intel® Core™ i7/i5/i3, Intel® Pentium® processors and Intel® Celeron® processors
Memory	2 x DDR4 U-DIMM up to 2133 MHz max. up to 32 GB
Chipset	Intel® H110 PCH
BIOS	AMI -uEFI
Watchdog Timer	1 sec to 255 min
Expansion	PCIe x16 slot
Power Input	AC 100V to 240V
Dimension	250 mm (W) x 210 mm (D) x 180 mm (H)
Operating Temperature	0 °C to 40 °C (32 °F to 104°F)
Humidity	10 % to 90 %, non-condensing

I/O

USB	4 x USB 3.0
Serial Interface	3 x RS-232 DB9 (1 x RS-422/485 configurable)
Audio	HD audio Mic-in and Line-out
Storage	3 x SATA III, 2.5" SSD supported 1 x mSATA
Ethernet	2 x GbE LAN port Build in 16-port 10/100 BASE Ethernet switch



IoT Solutions
Alliance



Display

Graphic	6th Generation Intel® HD Graphics 510/530 7th Generation Intel® HD Graphics 610/630 DirectX® 12, OpenGL® 4.4, and OpenCL™ 2.0
Interface	8 x HDMI (splitter) 1 x VGA 1 x DP

Software

OS	Windows® 7,10 Linux kernel 4.x and above version
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Ordering Information

dBOX700-500	6/7th Generation Intel® Core™ Jackpot Controller with H110 PCH, 8 x HDMI, 16 x LAN
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GP700

7" PCAP TFT LCD Monitor

Table game signage for dealers and customers

Features

- 7" brightness TFT LCD
- Multiple video input support
- Rotatable design for install flexibility
- Design for table game system or casino table signage



Specifications

Front Bezel	IP65 compliant, metal front bezel	
Mounting	VESA75, Wall Mount, Desktop Stand	
LCD Panel	Display	7" TFT LCD
	Max Resolution	1024 x 600
	Max Colors	16.7M
	Display Area (mm)	153.6 (H) x 90 (V)
	Pixel Pitch	0.150 x 0.150
	Response Time	20ms
	Backlight	LED
	Viewing Angle (H/V)	145° / 150°
	Contrast Ratio	500 (TYP.)
	Brightness (cd/m ²)	320
Display Mode	Normally White	
Surface treatment	Anti-glare	
Operating Lifetime	20,000 Hrs	

Specifications

Input Signal	HDMI DP
Interface	1 x HDMI 1 x DP 1 x USB B Type for touchscreen 1 x Screw type DC power input
Power Consumption	11.32W
Touch Screen	Projected Capacitive Touch, support 4-point multi-touch
Dimensions	528mm (H) x 320mm (W) x 70mm (D)
ESD Requirement	8K for Contact ; 27K for Air
Environment	Operating Temperature: -10 °C ~ +60 °C (+14 °F ~ +140 °F) Storage Temperature: -20 °C ~ +70 °C (-4 °F ~ +158 °F) Relative Humidity: 10%-90% @ 40 °C
Certificate	EMC CE Class A

Gaming
Motherboard

Gaming
Platform

Player Tracking
System

Button Deck

Table Game
Monitor



* All specifications and photos are subject to change without notice.

For more information please contact: gaming@axiomtek.com.tw No. 4214-60001801

PT214 / PT216

All-in-one ARM® Cortex®-A9 Dual-Core Processor based Player Tracking System

Features

- All-In-One Platform
- Supports SAS 9-bit data
- 4.3" and 6.2" LCD with touch screen

Gaming
Motherboard
Gaming
Platform
Player Tracking
System
Button Deck
Table/Game
Monitor



▲ PT214



▲ PT216



System

CPU	Freescle i.MX 6 Dual
Memory	On-board DDR3 2GB SRAM 2MB, support data retention in unpowered state
Battery	1 x Lithium 3 V/220 mAH
Power Input	DC +12 V
Dimensions	174.7 mm (L) x 72 mm (W) x 30.24 mm (D)
Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)
Humidity	10 % to 90 %, non-condensing

I/O

USB	2 x USB 2.0
Serial Interface	2 x Serial port (1 x RS-232, 1 x SAS)
Audio	1 x Audio port with amplifier
Storage	2 x SD Socket
Ethernet	1 x GbE

Display

Graphic Controller	Freescle built-in controller
Interface	PT214 - 4.3" LCD (480 x 272) PT216 - 6.2" LCD (640 x 240)

Software

OS	Linux for i.MX processors, kernel 4.9.88
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Ordering Information

PT214-D	iMX 6 Dual PT with 2 GB memory, 4.3" LCD
PT216-D	iMX 6 Dual PT with 2 GB memory, 6.2" LCD



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For more information please contact: gaming@axiomtek.com.tw No. 4214-60001801

MotionDeck

The button deck with design flexibility, completed touch screen solution, and wide range of panel options for different types of slot machine.

Features

- High quality and wide viewing angle panel
- Support 10 points PCAP multi-touch screen
- Customized cover glass (color printing, LED lightning, etc.)
- Feature kits to enhance player gaming experience



Specifications

LCD Panel	TFT LCD with LED Backlight
Touchscreen	Projected Capacitive Touch 10 fingers multi-touch supported
Cover Glass	Customizable cover glass with rugged surface treatment
Input Signal	DVI-D DP
Interface	1 x DP 1 x USB B Type
Power Input	DC +12V
Environment	Operating temperature: 0 °C ~ +50 °C (+32 °F ~ +122 °F) Operation relative humidity: 10-90%
Supported OS	Windows®, Linux

Ordering Information

Model	Size	Resolution	Brightness	Contrast	Viewing Angle
MD101	10.1"	1280 x 800	500	800:1	170° / 170°
MD121	12.1"	1024 x 768	500	700:1	160° / 140°
MD133	13.3"	1920 x 1080	400	800:1	170° / 170°
MD150	15"	1024 x 768	250	700:1	160° / 140°
MD191	19.1"	1920 x 360	300	1200:1	178° / 178°

Feature Kits



**aiMotion
Charger**



**aiMotion
Immersive Effect**



**aiMotion
LED Lightning**



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For more information please contact: gaming@axiomtek.com.tw No. 4214-60001801



HQ

Axiomtek Gaming

8F., No.55, Nanxing Rd., Xizhi Dist.,
New Taipei City 221, Taiwan
Tel: +886-2-2641-2111
E-mail: gaming@axiomtek.com.tw

EU

Axiomtek Gaming Germany

Hans-Böckler-Str. 10
40764 Langenfeld
Germany
Tel: +49-2173-399360
Fax: +49-2173-3993636
E-mail: gaming@axiomtek.eu

USA

Axiomtek Gaming Las Vegas

6380 S Valley View Blvd. Unit 418
Las Vegas, NV 89118
USA
Tel: +1-702-333-7032
E-mail: gaming@axiomtek.com

Axiomtek Gaming California

18138 Rowland Street
City of Industry, CA 91748
USA
Tel: +1-626-581-3232
Fax: +1-626-581-3552
E-mail: info@axiomtek.com

