AIER1000 Series

AI Education Solution

8th Gen Intel® Core™ i7-8700 Processor AI **Education Solution**







AIER102E

Features

- A comprehensive AI deep learning and edge computing solution designed for educational providers
- Designed for collecting and analyzing student's behavior and engagement in the classroom through facial recognition
- Optimize teaching quality through classroom interaction
- Facial Recognition 98% face verification accuracy for 1:1
- Biometric identification 6 kinds of student face emotion identification
- Behavior identification 9 kinds of student behavior identification

I/O View









AIER100C AIER102E

Specifications

Model No.	AIER102E	AIER100C	
System Mainboard	MI998AF-AI		
CPU Type	8th Gen Intel® Core™ i7-8700 Processor 3.20GHz, TDP ≤ 65W		
CPU Socket	LGA1151		
Chipset	Q370 PCH		
Memory	2x DDR4 SO-DIMM 2666/2400 MHz up to 32GB, default 2x 8GB		
Graphics	Intel® UHD Graphics 630		
LAN	1x Intel® I219LM 1x Intel® I211AT		
Front Side External I/O	2x USB 2.0 1x Reset button 1x Power/HDD LED		
Rear Side External I/O	1x HDMI 4x USB 3.0 2x RJ45 Gigabit LAN 1x COM port RS232 1x AC-in		
Capture Card	Video Input: 4x SDI Max. FPS: 1920 x 1080p @60/50fps in → 1920 x 1080p @60/50fps out Recording Video Resolution: 3G-SDI: 1920 x 1080p @60/50fps HD-SDI: 1920 x 1080p @30/25/24fps 1920 x 1080i @60/50fps 1280 x 720p @60/50fps SD-SDI:720 x 480i @60fps 720 x 576i @50fps		
Expansion Slots	N/A		
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2255 (sec/min)		
Power Requirement	AC 100~240V		
Construction	Aluminum + SGCC		
Chassis Color	Gray & white	Blue & white	
Storage	2x 2.5" SATA Devices, default 1x 128G SSD and 1x 500G HDD	2x 2.5" SATA Devices, default 1x 128G SSD and 1x 2TB HDD	
Mounting	Standard system bracket		
Dimensions	406mm(W) x 345mm(D) x 93mm(H) 462.8mm(W) x 345mm(D) x 98mm(H) with desktop mounting kit		
Weight	8kg (17.64lbs)		

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Operating Temperature	0°C~ 45°C (32°F~113°F)	
Storage Temperature	-20°C ~ 80°C (-4°F~176°F)	
Relative Humidity	10%~90% (non-condensing)	
Certification	CE/FCC Class-A	
Operating System	Windows 10 64-bit Enterprise	

Full HD Camera Specifications

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Image Sensor	1/3 inch Progressive CMOS
Sensor Size	5.346 x 3.003mm (16:9)
Effective Pixels	Horizontal: 1920, Vertical: 1080
Pixel Size	2.75um x 2.75um
Resolution	1080p / 1080i: 1920 x 1080 720p & 720i: 1280 x 720
Resolution/Rate	1080 60p/ 59.94p/ 50p/ 30p/ 29.97p/ 25p 1080 60i/ 59.94i/ 50i 720 60p/ 59.94p/ 50p/ 30p/ 25p
Output	HD-SDI/ 3G-SDI (1 BNC) HDMI 1.3a
Color Space	4:2:2 (YCbCr) 10 bit
Camera Control	RS-485, OSD Button
Operation Temp	32°F~104°F
Dimension	49mm x 49mm x 71mm (with default 3.6mm lens)
Weight	180g/0.39Lbs (With default 3.6mm Lens)
Power	30W/ 12V DC

Packing List

Model No.	AIER102E	AIER100C
Mounting Kit	Wall mount kit and screws	Wall mount kit and screws
Power	Power cord for System	Power cord for System
Camera Kit	2x AIDA SDI interface, Full HD cameras 2x 12V power adapters and Power cables 2x SDI 20M cables	



Backplane Systems Technology Pty Ltd

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Ordering Information

AIER102E	Artificial Intelligence System for education edge side solution, w/ Intel® Core™ i7-8700 (3.2GHz/4.6GHz) CPU, 2x 8GB DDR4 Memory, 1x 2.5" 128GB SSD & 1x 2.5" 500G SATA III HDD, PCI-E SDI Capture Card, 2x FHD Cameras Kits, Edge side A.I. SDK & WIN10 IoT LTSE 2016 High End OS, 100V~240V AC
	Artificial Intelligence System for education Central Management Server, w/ Intel® Core™ 17-8700 (3.2GHz/4.6GHz) CPU, 2x 8GB DDR4 Memory, 1x 2.5" 128GB SSD & 1x 2.5" 21B HDD, Central Management Server A.I. SDK & WIN10 IoT LTSE 2016 High End OS, 100V~240VAC

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Dimensions

