Selection Guide-A Series
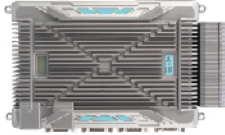
Genius Series Edge Computing Platform

Product Picture					
Product Name		Genius A10	Genius A10	Genius A10	Genius精灵 A20
Order number		A10-AXXX	A10-CXXX	A10-GXXX	A20-FXXX
Color		Genius Grey			
Operating System		Windows 7, Windows 10, Ubuntu, etc.			
Processor		Intel Celeron J1900 2.0GHz, can up to 2.42GHz, 2M Cache, TDP			
RAM		Support DDR3 1333MHz Up to 8GB (one slot), 4GB(default)			
SSD&HDD		1 x 2.5" SATAIII HDD&SSD + M.2 (2280 SATA) 64G ,128G ,250G, 500G SSD (Optional)			
Display (Optional)		Intel HD Graphics 3000 ; Double display：1x VGA, 1x HDMI, 1920*1080@60Hz （A10）			
		Intel HD Graphics 3000,1x HDMI, 1920*1080@60Hz （A20）			
Ethernet (Optional)		LAN1/2: Intel i211 10/100/1000Mbps, Support internet wake up. LAN1/2: Intel i210 10/100/1000Mbps, Support internet wake up.(optional)			LAN1/2: Intel i211 10/100/1000Mbps LAN3/4: Intel i210 10/100/1000Mbps
I/O inter-face	COM	optional: 3 x COM, 6 x COM, 10 x COM(COM1/2 3KV isolated, can set up to RS-232/485 by BIOS, COM3~COM10: RS-232)			
	USB	1 x USB3.0, 5 x USB2.0(inside one)			
	GPIO	8 bit GPIO(10 x COM except)			
	on/off	remote switch	physical switch	remote switch	remote switch
physical switch		1 x overall length Mini PCIe slot; Nano SIM card slot, can install & dismantle 4G card.			
Audio		1 x Mic +1 x Line Out			
Power supply	interface	Threaded aviation head	Threaded aviation head	Threaded aviation head	Threaded aviation head
	Power-on self-start	support Power-on self-start,accidental power failure self-recovery			
	Voltage	+9-28VDC(support Overcurrent, overload and short-circuit protection.)			
	power adapter	220VAC input 12V/5Aoutput power adapter(optional)			
	power line	1 x 2M Airline Head DC Power Cable			
Backup UPS		2500mAH Li-ion battery, can work continuously for 45 minutes after power off at 25℃ ambient temperature (optional)			
		-	-	-	Optional
Temperature monitoring		CPU temperature and external ambient temperature are monitored in real time, the temperature limit LED flashes as an alarm (optional)			
Power Consumption		Maximum Power Consumption12W			
Cooling method		Fanless, integrated die-cast aluminum cooling			
Mount-ing	Embedded	✓	✓	✓	✓
	Wall Mount	✓	✓	✓	✓
	Rail Mounted	✗	✗	✓	✗
Dimensions		173(W) x 52(H) x 121(D)mm (See P17~18 for I/O port and dimensional installation diagrams)			
Net weight		1.2Kg			
Electromagnetic compatibility		IEC60068-2-64			
Operating environmen		-20~60℃(Optional SSD), 0~40℃(2.5" laptop HDD)			
Storage temperature		-30~70℃			
Vibrations		Half sine wave 3g, 11ms, 3 shock per axis			
Authentication		CE, FCC			

Note: For specific order number details, please contact our sales specialist.

Selection Guide-P Series

Genius Series Edge Computing Platform

Product Picture					
Product Name		Genius P10	Genius P10	Genius P10	Genius P20
Order number		P10-AXXX	P10-CXXX	P10-EXXX	P20-DXXX
Color		Genius Grey			
Operating System		Windows 7, Windows 10, Ubuntu, etc.			
Processor (Optional)		Intel® 7th Core™ i7 7500U 2.7GHz, can up to 3.5GHz,4M Cache, TDP 15W Intel® 7th Core™ i5 7200U 2.5GHz, can up to 3.1GHz,3M Cache, TDP 15W Intel® 6th Core™ i7 6500U 2.5GHz, can up to 3.1GHz,4M Cache, TDP 15W Intel® 6th Core™ i5 6200U 2.3GHz, can up to 2.8GHz,3M Cache, TDP 15W Intel® 6th Core™ i3 6100U 2.3GHz, 3M Cache, TDP 15W Intel® Celeron 3855U 1.6GHz, 2M Cache, TDP 10W			
RAM		Support DDR4 2400MHz Up to 16GB (1 RAM slot)			
SSD&HDD(Optional)		1 x 2.5" SATAIII HDD&SSD + M.2 (2280 SATA) 64G ,128G ,250G, 500G SSD (Optional)			
Display (Optional)		Intel HD Graphics 620, DirectX12, OpenGL 4.5, Double display：1x VGA, 1x HDMI, 4096*2304@60Hz (P10)			
		Intel HD Graphics 520, DirectX12, OpenGL 4.5, 1x HDMI, 4096*2304@60Hz (P20)			
Ethernet (Optional)		LAN1: Intel i219LM 10/100/1000Mbps, Support internet wake up. LAN2: Intel i210 10/100/1000Mbps, Support EtherCAT agreement and internet wake up.			LAN1: Intel i219LM 10/100/1000Mbps LAN2/3/4: Intel i210 10/100/1000Mbps
I/O inter -face	COM	Optional: 3 x COM, 6 x COM, 10 x COM(COM1/2 3KV isolated, can set up to RS-232/485 by BIOS, COM3~COM10: RS-232)			
	USB	Optional: 4 x USB3.0, 2 x USB2.0 ; 4 x USB3.0, 3 x USB2.0 (1inside); 4 x USB3.0, 4 x USB2.0 ;4 x USB3.0, 5 x USB2.0 (1inside)			
	GPIO	8 bit GPIO(10 x COM except)			
	on/off	remote switch	remote switch	remote switch	remote switch
physical switch		1 x overall length Mini PCIe slot; Nano SIM card slot, can install & dismantle 4G card.			
Audio		1 x Mic +1 x Line Out			
Power supply	interface	Threaded aviation head	Threaded aviation head	Threaded aviation head	Threaded aviation head
	Power-on self-start	support Power-on self-start,accidental power failure self-recovery			
	Voltage	+9-28VDC(support Overcurrent, overload and short-circuit protection.)			
	power adapter	220VAC input 12V/5A output power adapter (optional)			
	power line	1 x 2M Airline Head DC Power Cable			
Backup UPS		2500mAH Li-ion battery, can work continuously for 30 minutes after power off at 25℃ ambient temperature (optional)			
		-	Optional	-	Optional
Temperature monitoring		CPU temperature and external ambient temperature are monitored in real time, the temperature limit LED flashes as an alarm (optional)			
Power Consumption		Maximum Power Consumption 30W (i7 7500U CPU/ 8G Memory)			
Cooling method		Fanless, integrated die-cast aluminum cooling; integrated die-cast aluminum and copper tube cooling (i5 and above)			
Mount -ing	Embedded	✓	✓	✓	✓
	Wall Mount	✓	✓	✓	✓
	Rail Mounted	✗	✗	✓	✗
Dimensions		173(W) x 52(H) x 121(D)mm (See P17~18 for I/O port and dimensional installation diagrams)			
Net weight		1.2Kg			
Electromagnetic compatibility		IEC60068-2-64			
Operating environmen		-20~60℃ (Optional SSD), 0~40℃ (2.5" laptop HDD)			
Storage temperature		-30~70℃			
Vibrations		Half sine wave 3g, 11ms, 3 shock per axis			
Authentication		CE, FCC			

Note: For specific order number details, please contact our sales specialist.

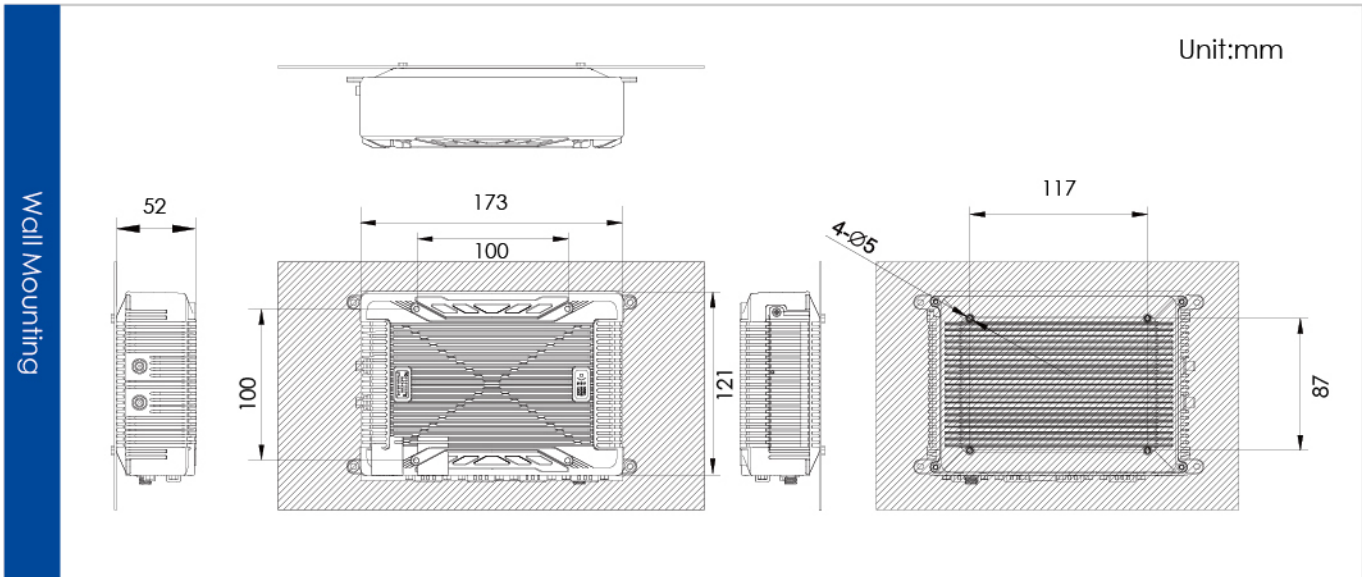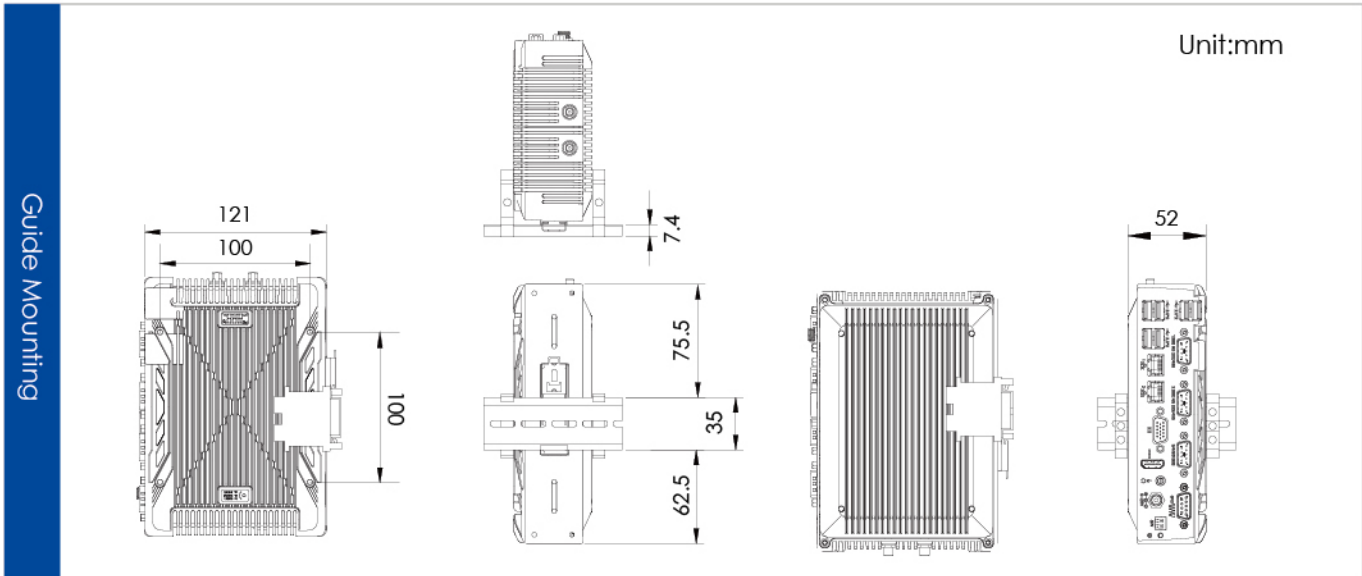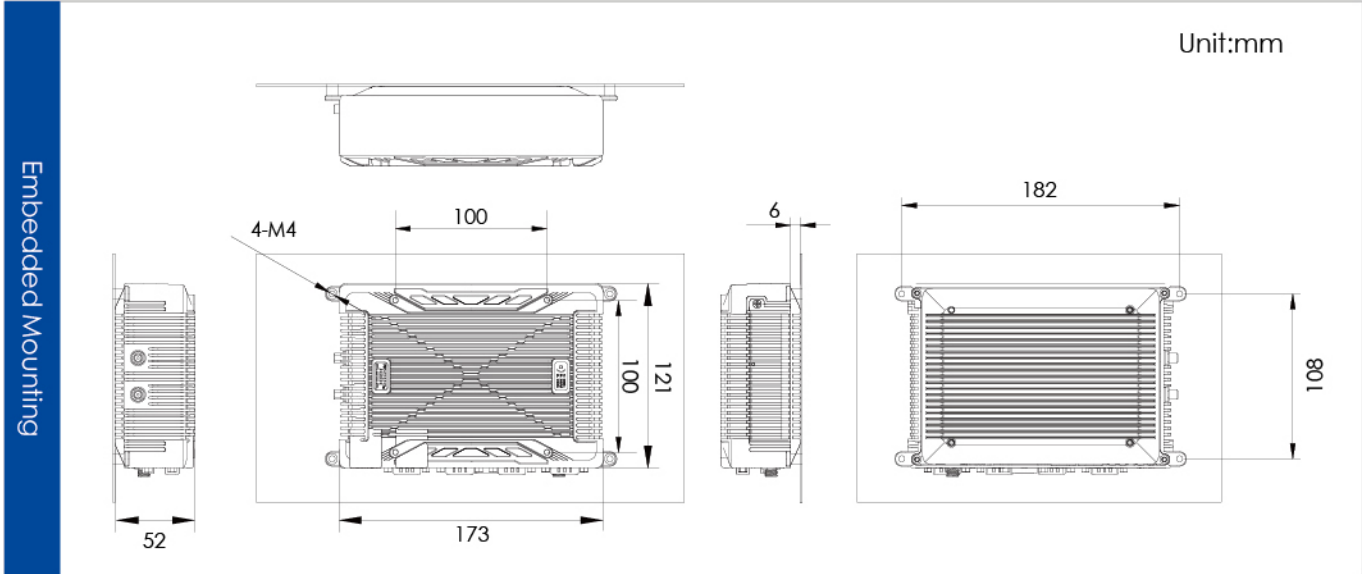# Selection Guide-S Series

Genius Series Edge Computing Platform

Product Picture				
Product Name	Genius S10	Genius S10	Genius S10	Genius S20
Order number	S10-AXXX	S10-CXXX	S10-EXXX	S20-DXXX
Color	Genius Grey			
Operating System	Windows 10, Ubuntu, etc.			
	Intel® 8th Core™ i7 8565U/8665U 1.8/1.9GHz, can up to 4.6/4.8GHz, 8M Cache, TDP 15W Intel® 8th Core™ i5 8265U 1.6GHz, can up to 3.9GHz,6M Cache, TDP 15W Intel® 8th Core™ i3 8145U 2.1GHz, can up to 3.9GHz,4M Cache, TDP 15W Intel® Celeron J4205U/4305U 1.8/2.2GHz, TDP 15W			
RAM	Support DDR4 2400MHz Up to 16GB (1 RAM slot)			
SSD&HDD(Optional)	1 x 2.5" SATAIII HDD&SSD + M.2 (2280 SATA) 64G ,128G ,250G, 500G SSD (Optional)			
Display (Optional)	Intel HD Graphics 620，DirectX12, OpenGL 4.5,Double display：1x VGA, 1x HDMI, 4096*2304@60Hz			
	Intel HD Graphics 620, DirectX12, OpenGL 4.5, 1x HDMI, 4096*2304@60Hz (S20)			
Ethernet (Optional)	LAN1: Intel i219LM 10/100/1000Mbps, Support internet wake up. LAN2: Intel i210 10/100/1000Mbps, Support EtherCAT agreement and internet wake up.			LAN1: Intel i219LM 10/100/1000Mbps LAN2/3/4: Intel i210 10/100/1000Mbps

I/O interface

I/O inter-face	COM	Optional: 3 x COM, 6 x COM, 10 x COM(COM1/2 3KV isolated, can set up to RS-232/485 by BIOS, COM3~COM10: RS-232)			
	USB	Optional: 4 x USB3.0, 2 x USB2.0 ; 4 x USB3.0, 3 x USB2.0（1inside); 4 x USB3.0, 4 x USB2.0 ;4 x USB3.0, 5 x USB2.0 （1inside）			
	GPIO	8 bit GPIO(10 x COM except)			
	on/off	remote switch	remote switch	remote switch	remote switch
physical switch		1 x overall length Mini PCIe slot; Nano SIM card slot, can install & dismantle 4G card.			
Audio		1 x Mic +1 x Line Out			

Power supply

Power supply	interface	Threaded aviation head	Threaded aviation head	Threaded aviation head	Threaded aviation head
	Power-on self-start	support Power-on self-start,accidental power failure self-recovery			
	Voltage	+9-28VDC(support Overcurrent, overload and short-circuit protection.)			
	power adapter	220VAC input 12V/5A output power			
	power line	1 x 2M Airline Head DC Power Cable			
Backup UPS		2500mAH Li-ion battery, can work continuously for 30 minutes after power off at 25℃ ambient temperature (optional)			
		-	Optional	-	Optional
Temperature monitoring		CPU temperature and external ambient temperature are monitored in real time, the temperature limit LED flashes as an alarm (optional)			
Power Consumption		Maximum Power Consumption 35W (i7 8565U CPU/ 8G Memory)			
Cooling method		Fanless, integrated die-cast aluminum cooling; integrated die-cast aluminum and copper tube cooling (i5 and above)			

Mounting

Mount-ing	Embedded	✓	✓	✓	✓
	Wall Mount	✓	✓	✓	✓
	Rail Mounted	✗	✗	✓	✗
Dimensions		173(W) x 52(H) x 121(D)mm (See P17~18 for I/O port and dimensional installation diagrams)			
Net weight		1.2Kg			
Electromagnetic compatibility		IEC60068-2-64			
Operating environmen		-20~60℃ (Optional SSD), 0~40℃ (2.5" laptop HDD)			
Storage temperature		-30~70℃			
Vibrations		Half sine wave 3g, 11ms, 3 shock per axis			
Authentication		CE, FCC			

Note: For specific order number details, please contact our sales specialist.

Dimensional Installation Diagrams - Accessories

Genius Series Edge Computing Platform

Embedded Mounting

Unit:mm

4-M4 · 100 · 121 · 100 · 173 · 52 · 6 · 182 · 108

Guide Mounting

Unit:mm

121 · 100 · 100 · 7.4 · 75.5 · 35 · 62.5 · 52

Wall Mounting

Unit:mm

52 · 173 · 100 · 100 · 121 · 4-Ø5 · 117 · 87

7 reasons to choose Genius

Modularcomputing platforms

Genius series CPU adopts modular design, can be flexibly equipped with Intel 8th Whiskey LakeU Core i7/i5/i3, 6th/7th SkyLakeU, Kaby LakeU Core i7/i5/i3, Celeron J1900 computing platform, quickly meet your personalized needs, and the fixed size of the same, reduce the engineer's workload due to different structures to increase, saving your valuable time!

Modular I/O,multi-port, multi-serial, customizable

Modular I/O design to quickly realize your needs in different application scenarios, up to 4–6 web ports in Camera communication, control by EtherCAT, up to 10 RS–232/485 device communication, GPIO and CAN can flexible configuration so that to build your solution.

Heat dissipation by copper tubes and die-cast aluminum

Achieving fanlessness in a limited space is an industry dilemma and challenge. Based on years of fanless data, by more than 10 kinds of CPU power consumption calculation and heat dissipation simulation models,for you we make Genius,which is compact and sturdy, via copper tubes and die–cast aluminum to achieve heat dissipation,achieve stable and reliable high–performance computing in a compact space.
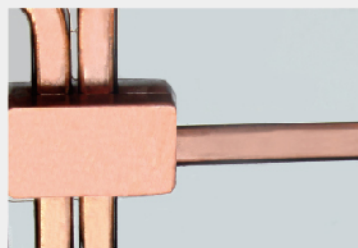
No cables, more reliable

We adopt physical interface connection without cables,minimizes the effects of vibration, move, transportation and poor cable contact on device communication,this ensures a more reliable and efficient production of the equipment.
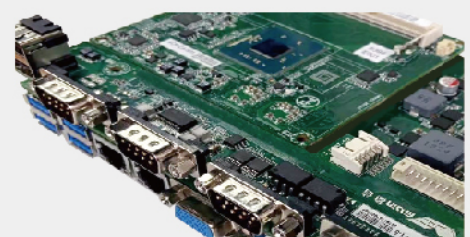
Unique single-side interface, modular installation

We provide unique single–side interface and multiple installations,it will be easier to install the host in the compact space and more convenience to debug ,compared with traditional two side interface host. Our host can use embedded and rail mount,so Genius in the human machine control system and AGV and machine vision has outstanding advantages.

Pull out SSD   NANO SIM card
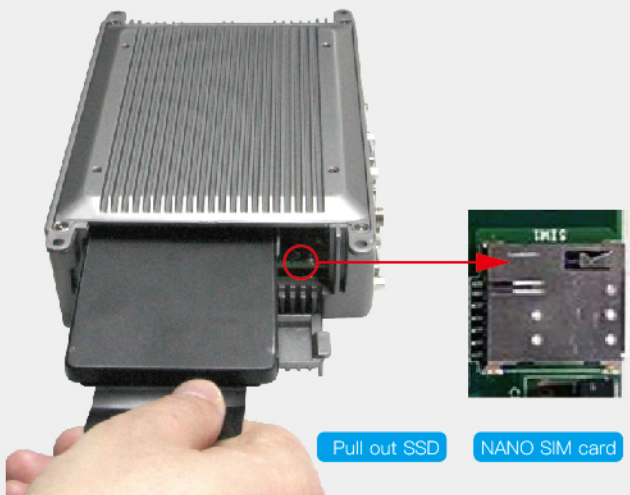
Trouble-free with localized upgrades Data wireless networking

Genius series has the feature of extractable hard disk, which provides users with the option to upgrade the capacity of the hard disk by themselves, and at the same time, it is convenient for users to localize the operation and maintenance, greatly reducing the time and cost of equipment maintenance.

With the advent of the Internet of Things (IoT) era, the Pixie series can help industrial IoT and intelligent factories realize the value of big data through local edge computing and wireless networking with 4G, WiFi, Bluetooth and other data.

2500mAH UPS Battery

UPS battery to prevent data loss

Genius Series can be optional UPS battery management, emergency power supply time of up to 30 minutes at room temperature, especially in outdoor or unstable power supply environment, the user cares about the integrity of the important production data can be saved, the hard disk, application software and operating system to avoid power failure to avoid potential problems, thereby improving the stability of equipment and real–time operation.