PMM

Power Meter Monitor

Business and Mission-Critical Solutions Provider

iPU PMM iPU Platform

We build innovative, tailored solutions for your mission and business-critical operations

DESIGN CONCEPT

PMM system and application solution designs are built from the ground up, with a **mission-critical** factor in mind for every component and code. A solution that is tailored to serve your business- critical operation's needs.

PMM iPU is our core hardware flagship, and it covers a wide range of our product solution and as well, it runs our tailored application.

PMM iPU is an industrial grade Processing Unit built for harsh industrial environment and customized for mission and business- critical operation's needs.

PMM iPU CPU3560 is the main base hardware configuration unit for our Media Converters, Gateways, IO, SCADA, Billing System, and Asset Management solution.

iPU CPU3560

Industrial rugged design

Intel® Atom™ ApolloLake J3355

Dual core 2.5 GHz

Low power consumption

RS-232 / RS-485 com ports

Multi-network ports

DC 9v / DC 30v with protection

SODIMM memory

Integrated graphic accelerator

Mini PCIe expansion slots

Fanless with Din-rail mount

Windows 10, and Linux OS

MANY FEATURES

Rugged aluminum and din-rail mounting:
To ensure that excellent heat dissipation and strong, din-rail is a better way to mount the cabinet.

DC12V/24V Power input:
DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.

2 COM ports 2 RS232 or RS485:
8KV electrostatic protection, 600W, TVS surge protection, RS485 support automatic data flow control.

Multi-network ports and serial port expansion:
Up to 6 Gigabit Ethernet ports and 8 RS232 / 485 serial ports.

Wide Work Temperature:
The product is with wide temperature components integrated, system operating temperature supports -20 up to +60℃, suitable for major industrial applications.
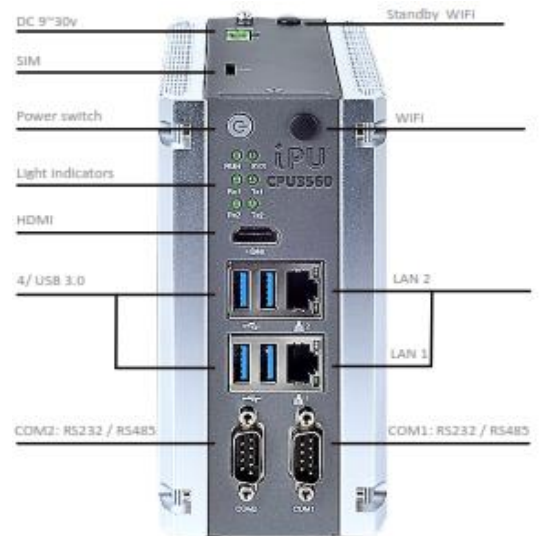
2 Ethernet ports:
There are 2 intel210AT Ethernet ports with high speed Ethernet and jumbo frame support.

2 Mini PCIe expansion slots:
Rapid expansion CAN, ProfiBUS, FieldBus and other field bus, or 3G / 4G, WIFI, GPS communication module.

MAIN SPECIFICATIONS

PMM iPU-CPU3560 Main Specifications:

- Industrial robust design chassis
- On-board low- power consumption
- Intel® Atom™ ApolloLake J3355 CPU
- Up to 2.5GHz processor
- 2 x Intel i210 1000Mbps RJ45 interfaces
- 2 x RS-232 serial ports (Optional RS-485)
- 4 x USB2.0/3.0 ports
- Support mSATA as storage
- SODIMM memory
- HDMI
- Fanless
- DC9V–DC30V power input with over current, over voltage, surge and reverse connection protection
- No cable inside design
- Large aluminum chassis heatsink for cooling
- DIN rail mounting
- Support Windows 10, and Linux OS
- Shock and impact resistance
- Sealed box structure to prevent dust

Platform for any Industrial Application

iPU

Mini, rugged, sealed, fanless

Big powerful performance

Wide-range of options

Built to run 24/7

TECHNICAL SPECIFICATIONS

Processor	CPU	Intel® Apollo Lake Series J3355
	Frequency	Dual core 2.3GHz
	L2 Cache	2 MB
	Chipset	-
	BIOS	AMI EFI 16Mbit
Memory	Architecture	DDR3L-1666MHz
	Capacity	Up to 8GB
	DIMM	1 x 204-pin SODIMM
Display	Display Controller	Integrated graphics media accelerator
	HDMI	Max resolution up to 4096×2160@30Hz
LAN	LAN 1	Intel i210 Gbe LAN controller
	LAN 2	Intel i210 Gbe LAN controller
	Extended LAN	4 x 1000Mbps RJ-45
I/O	COM	2 x RS-232(RS-232/485 Optional)
	LPT	N/A
	USB	4 x USB3.0/2.0/1.1
Other	Digital IO	N/A
	Watchdog	0~255 seconds programmable
Expansion Slot	MiniPCIe	2* full size PCIe with SIM holder
	PCIe & PCI	N/A
Storage Medium	SSD	1 * full size mSATA SSD
OS	Microsoft Windows	Windows 10
	Linux	Ubuntu
Power	Type	AT
	Input Voltage	9-30V DC ±10%
	Minimum Input	12V, 3A
	Power Adapter	Optional
Power Dissipation	No-load	15 Wa
	Full-load	31 Wa

PMM iPU CPU3560

Mechanism Parameters	Box Structure	Aluminum alloy Box
	Mounting	Din-rail
	Dimensions (L*W*H)	145mm x 145mm x 75mm (5.71" x 5.71" x 2.95")
	NW	-
Environmental	Work Temperature	-20 ~ 60° C (-4 ℉ ~140 ℉) (Wide temperature SSD)
		0 ~ 45° C (32 ℉ ~113 ℉) (General temperature HDD/SSD)
	Storage Temperature	0 ~ 45° C (32 ℉ ~113 ℉) (General temperature HDD/SSD)
	Relative Humidity	-40 ~ 80℃ (-40 ~ 176 ℉)
	Shake	SSD applied: 1.5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
	Shock	SSD applied: 10 G, IEC 60068-2-64, Half-sine wave, 11ms duration
	EMC	CE/FCC Class A
	Safety Certification	CCC

DIMENSIONS