

NewPre300 IoT Gateway



Compact & Mighty Design

- Supports 6th generation Intel® Core™ i7/i5/i3 LGA socket type processors
- Supports 2 x DDR4 2133 SO-DIMM socket, up to 16GB
- Compact form factor with fan-less design, operating temperature ranges from -5~55°C
- Dual independent display HDMI and DVI-D
- Rich I/O Interfaces with 2 x mini-PCIe socket for optional Wi-Fi/3.5G/4G LTE/fieldbus modules
- CE/FCC, LVD ready

Versatile Expansion Capability

- 2 x mini-PCIe slots supports the following modules:
 - PROFIBUS
 - PROFINET
 - DeviceNET
 - EtherCAT
 - EtherNet/IP
 - CANopen
 - SERCOS III master
 - LAN
 - Wi-Fi
 - 3.5G/4G LTE
 - mSATA

Popular OS Supported

- Supports:
 - Windows 7, 32-bit/64-bit
 - Windows 10 Enterprise 64-bit
 - Linux Kernel version 3.8.0
 - Winux-RT

» Specifications

		NewPre300
Main System	CPU	Supports 6th generation Intel® Core™ i7/i5/i3 LGA socket type processors - Core™ i7-6700TE, Quad Core, 2.4GHz, 8M Cache (maximum frequency 3.4GHz if turbo boost enabled) - Core™ i5-6500TE, Quad Core, 2.3GHz, 6M Cache (maximum frequency 3.3GHz if turbo boost enabled) - Core™ i3-6100TE, Quad Core, 2.7GHz, 4M Cache (no turbo boost) - Pentium G4400TE, Dual Core, 2.4GHz, 3M Cache (no turbo boost) - Celeron® G3900TE, Dual Core, 2.3GHz, 2M Cache (no turbo boost)
	Memory	2 x DDR4 2133 SO-DIMM socket, supports up to 16 GB
	Storage	1 x CFast (SATA 3.0) 1 x 2.5" HDD (external, SATA 3.0) 1 x 2.5" HDD (internal, SATA 3.0) 1 x mSATA (via internal mini-PCIe socket)
Interface	Display interface	1 x HDMI, 1 x DVI-D, independent display
	Network interface	3 x Intel® I210-IT GbE LAN ports, support WoL, teaming and PXE
	USB	4 x USB3.0 (900mA each), 2 x USB2.0 (500mA each)
	Serial port	2 x RS232/422/485 auto with 2.5KV Isolation
	SIM card	1 x SIM card holder
	Expansion slot	2 mini-PCIe slots for optional Wi-Fi/3.5G/4G LTE/fieldbus modules
Power Supply	Input voltage	Typical 24V DC input with ±20% range, with reverse polarity protection
Mechanical Structure	Enclosure	Aluminum and metal chassis
	Heat dissipation	Natural cooling, fan-less
	Dimensions(mm)	90 x 185 x 251 mm (W x D x H)
	Weight	5KG
	Mount	Wall mount
Environment	Operating temperature	-5 ~ 55°C (main machine)
	Storage temperature	-20 ~ 85°C
	Humidity	10 ~ 93% non-condensing
Standard	EMI	EN 61000-6-4:2007+A1:2001 / FCC 47 Part 15 B
	EMC	IEC61000-4-2 (ESD), Air: 8kV; Con tact: 4kV IEC61000-4-3 (RS), 10V/m (80MHz ~ 2.7GHz) IEC61000-4-4 (EFT), AC Power Port: 2kV, DC Power Port: 2kV, Singal Port: 1kV IEC61000-4-5 (Surge), AC Power Port: 1kV/DM, 2kV/CM, DC Power Port: 0.5kV/DM, 0.5kV/CM, Singal Port: 1kV/CM IEC61000-4-6 (CS), Signal ports: 0.15-80MHz at 10V/m, Power ports: 0.15-80MHz at 10V/m
	Mechanical	IEC60068-2-64 (vibration) IEC60068-2-27 (shock) IEC60068-2-32 (Free fall)
Certificate	CE, FCC, LVD	

» Ordering Information

Part Number	Description
NewPre300	NewPre300 barebone fan-less system
Intel i7-6700TE	Intel Core™ i7-6700TE, Quad Core, 2.4GHz, 8M Cache (maximum frequency 3.4GHz if turbo boost enabled)
Intel i5-6500TE	Intel Core™ i5-6500TE, Quad Core, 2.3GHz, 6M Cache (maximum frequency 3.3GHz if turbo boost enabled)
Intel i3-6100TE	Intel Core™ i3-6100TE, Quad Core, 2.7GHz, 4M Cache (no turbo boost)
Intel Pentium G4400TE	Intel Pentium G4400TE, Dual Core, 2.4GHz, 3M Cache (no turbo boost)
Intel Celeron G3900TE	Intel Celeron® G3900TE, Dual Core, 2.3GHz, 2M Cache (no turbo boost)
DDR4 8GB	DDR4 2666 SO-DIMM 8GB
SSD 2.5 128GB	SSD 2.5 SATAIII 128G MLC
SSD 2.5 256GB	SSD 2.5 SATAIII 256G MLC
SSD 2.5 512GB	SSD 2.5 SATAIII 512G MLC
Power Adapter & Cord	Power Adapter & Cord for NewPre300

» Dimensions

