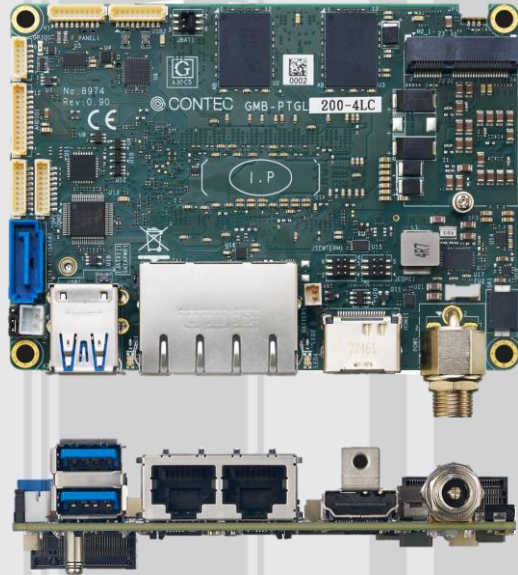


GMB-PTGLx00



**Pico-ITX SBC Intel® Tiger Lake -UP3 Platform
Core™ i3/i5/i7 x6 Processor**



Semiconductor
Industry



Digital Signage



Medical
Healthcare



Features

- Intel® Tiger Lake-UP3 platform by Core i3-1115G4E/ Core i5-1145G7E/Core i7-1185G7E Processor
- On Board DDR memory up to 16GB
- Two RJ-45 LAN port by i225 & i219 controller
- 2x COM, 2x USB 3.1, 2x USB 2.0, 1x GPIO
- 1x eDP, 1x HDMI and other rich expansion interfaces
- Security by TPM2.0 & Wide range DC input

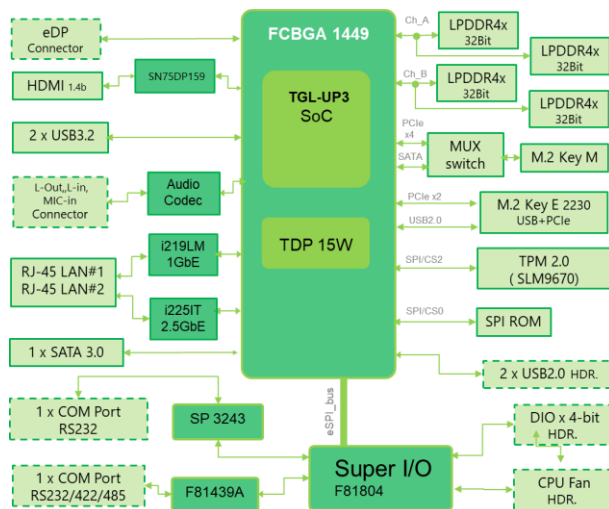


Pico-ITX form factor computers with Intel Tiger Lake-UP3 processors are suitable for a range of applications that require compact, low-power, and high-performance computing platforms. Some potential applications include Industrial Automation/Digital Signage/IoT Devices & Medical Devices.

CPU Selection Guide

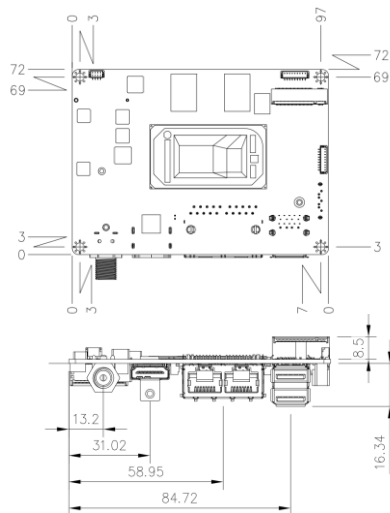
Model No.	GMB-PTGL200-2LCF	GMB-PTGL200-3LCF	GMB-PTGL300-3LCF	GMB-PTGL400-3LCF
Processor No.	Core i3-1115G4E	Core i3-1115G4E	Core i5-1145G7E	Core i7-1185G7E
Cores/Threads	2 / 4	2 / 4	4 / 8	4 / 8
On Board Memory	8GB	16GB	16GB	16GB

Block Diagram



Mechanical Dimensions

Unit: mm



Specifications

MODEL NAME	GMB-PTGL200-2LCF	GMB-PTGL200-3LCF	GMB-PTGL300-3LCF	GMB-PTGL400-3LCF
PROCESSOR	11th Intel® Core™ i3-1115G4E	11th Intel® Core™ i3-1115G4E	11th Intel® Core™ i5-1145G7E	11th Intel® Core™ i7-1185G7E
CHIPSET	SoC (System on chipset)			
BIOS	AMI UEFI BIOS			
ON BOARD MEMORY	LPDDR4x-3200 / 8GB		LPDDR4x-3200 / 16GB	
STORAGE I/F	1 x SATAIII (6.0Gb/s) Port			
WATCHDOG TIMER	Software programmable, 1 sec ~ 255 sec			
HARDWARE MONITORING	System monitor (Voltage , Fan Speed and Temperature)			
EXPANSION INTERFACE	1 x M.2 Key E Type 2230 PCIe/USB2.0 1 x M.2 Key M Type 2242 NVMe			
AUDIO	High Definition Audio Interface, L-Out ,L-in, MIC-in (Internal pin header)			
ETHERNET	Dual RJ45 connector on rear I/O 1 x 10/100/1000 Mbps Ethernet port + 1 x 10/100/1000/2500 Mbps Ethernet port Controller: 1 x Intel i219LM + 1 x Intel i225IT			
SERIAL PORT	1x RS232/422/485: Selectable by BIOS (Internal pin header) 1x RS232 (Internal pin header)			
USB PORT	2x USB 3.1 Gen2 Type-A (Rear I/O) 2x USB 2.0 (Box HDR)			
GPIO	4-bit general purpose input/output (by internal pin header)			
GRAPHIC CONTROLLER	Intel® UHD Graphics for 11th Gen Intel® Processors		Intel® Iris® Xe Graphics	
DISPLAY INTERFACE	1 x HDMI up to 4096x2304x36bpp@60Hz 1x eDP up to 4096x2304x36bpp@60Hz			
POWER MANAGEMENT	Power On by Ring / Wake on LAN function (setting from BIOS)			
TPM	TPM 2.0			
DIMENSIONS (L X W)	2.5" 100mm x 72mm(3.94" x 2.84")			
POWER SUPPLY	12 ~24 VDC ±10% ; lockable DC-Jack			
ENVIRONMENT	Operation Temperature: 0 to 60°C (with 0.5m/s airflow) Storage Temperature: -40 to 80°C Humidity: 10 to 90% non-condensing			
OS DRIVER SUPPORT	Windows®10 IoT Enterprise LTSC 2021 64 bit			
CERTIFICATE	CE / FCC / UKCA / VCCI (class B) , RoHS2.0			

Ordering Guide

● GMB-PTGL200-2LCF	2.5" SBC. Intel® Core™ i3-1115G4E, 8GB Memory, with CPU Cooler
● GMB-PTGL200-3LCF	2.5" SBC. Intel® Core™ i3-1115G4E, 16GB Memory, with CPU Cooler
● GMB-PTGL300-3LCF	2.5" SBC. Intel® Core™ i5-1145G7E, 16GB Memory, with CPU Cooler
● GMB-PTGL400-3LCF	2.5" SBC. Intel® Core™ i7-1185G7E, 16GB Memory, with CPU Cooler

Option Accessory

● COM/GPIO Port Cable	● Audio cable	● USB2.0 cable
● Front panel cable	● SATA+Power Cable	