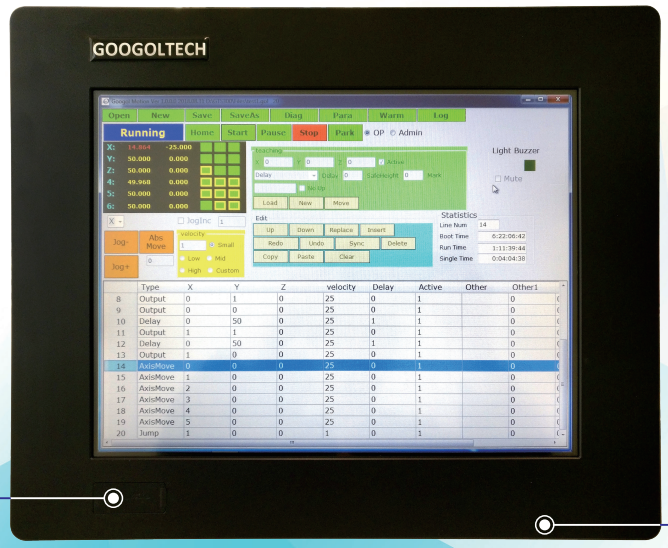
GOOGOLTECH

Motion Control Panel PC

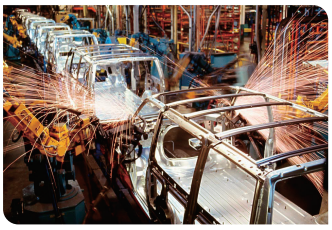


Front-side access
USB 2.0 port

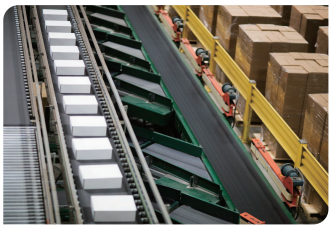
PCIe (x1) and
PCI expansion

CNC Application

Robotic Application



Factory Automation



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GMPPC-1500-BT0001

15” TFT 4:3 Motion Control Panel PC
with Intel® Celeron® J1900, 2.42GHz

Main Features

- 4:3 15” XGA fanless panel computer
- Two expansion slots for motion control cards (PCI/PCIe)
- Optional Wi-Fi/3.5G module and 2.5” SSD
- Mounting Support: Panel/VESA 75x75mm, 100x100mm
- IP65 Front Panel, IP30 Back System
- Wide range power input 12 ~ 24VDC

Specifications

Panel

- LED Size: 15", 4:3
- Resolution: XGA 1024x768
- Luminance: 420 cd/m2
- Contrast ratio: 800
- LCD color: 16.2M
- Viewing Angle: 80(U), 80(D), 80(L), 80(R)
- Backlight: LED

Touch Screen

- Resistive Single-Touchscreen (1 point)
- Light transmission: 79%
- Interface: USB

System

- CPU: On-board Intel® Celeron® Processor J1900 2.42GHz
- System memory: 2x 204-pin DDR3L SO-DIMM socket, 2GB DDR3L(Default), support up to 8GB DDR3L-1067/1333, Non-ECC and Un-buffered
- Storage Device: 1x SATA connector, support SATA 3Gb/s and SATA 6Gb/s, 64GB SSD(Default)
- Expansion:
  - 2x miniPCIe slots
    One slot for half size
    One slot for full/half size, mSATA support
  - 1x PCIe (x1) slot
  - 1 x 32-bit PCI slot
- Backlight control: Panel backlight can be controlled by BIOS, dimming range from 0%-100%
- Watchdog timer: Watchdog function available from boot level.
- H/W status monitor: Monitoring system temperature, and voltage

Rear I/O

- Ethernet: 2x RJ45
- Additional Display Port: 1x VGA, 1x DVI-D
- USB: 3x USB2.0, 1x USB3.0
- COM #1: 1x RS-232/422/485, selectable in BIOS
- COM #2: 1x RS-232
- Audio: MIC in/ Line in/Line out phone jack
- DC Power connector: 3-Pin Phoenix terminal block
- Power Button: Rock switch

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Ethernet

- LAN chip: 2x Intel® I211 Gigabit LAN
- Ethernet interface: 10/100/1000 Mbps

Power Requirements

- Input Voltage: 12 ~ 24VDC

Mechanical & Environment

- Fanless system design
- Color: Pantone black RAL9005
- IP protection:
  - IP65 Front Bezel
  - IP30 Back System
- Mounting: Panel/VESA 75 x 75mm, 100 x 100 mm
- Vibration: IEC 60068-2-6
  1Grms@random condition, 3~500Hz,
  1hr/axis(operating/non-operating)
- Shock: IEC 60068-2-27
  20G@wall mount, 11ms, each axis 3 times(operating)
- Operating temperature: 0°C to 50°C (with SSD)
- Storage temperature: -20°C to 60°C
- Operating humidity: 10%~90% relative humidity, non-condensing
- Dimension: 410 x 335 x 105 mm
- Weight: 8.7 kg

Certifications

- CE/FCC Class B
- LVD

OS Support List

- Windows 7 Professional/WES 7, WES 8/Windows 8.1/Windows 10
- Linux Kernel 3.X

Ordering Information

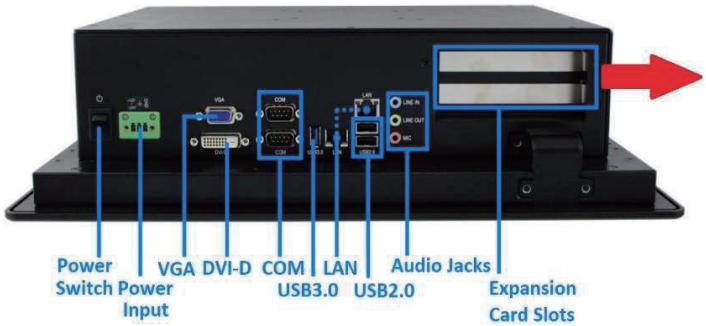
System

- GMPPC-1500-BT0001
  15" XGA LED Backlight Touch Panel PC, Intel® Celeron® Processor J1900 2.42GHz, 2GB DDR3L, 64G SSD

Options

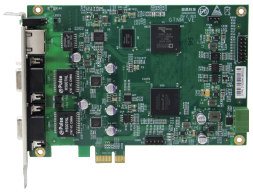
- GTS-VB/GTN/GHN Motion Control Card
- VESA Desk Stand

I/O View



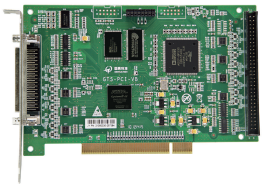
TWO Expansion Slots for Motion Control Card

PCIe Slot:



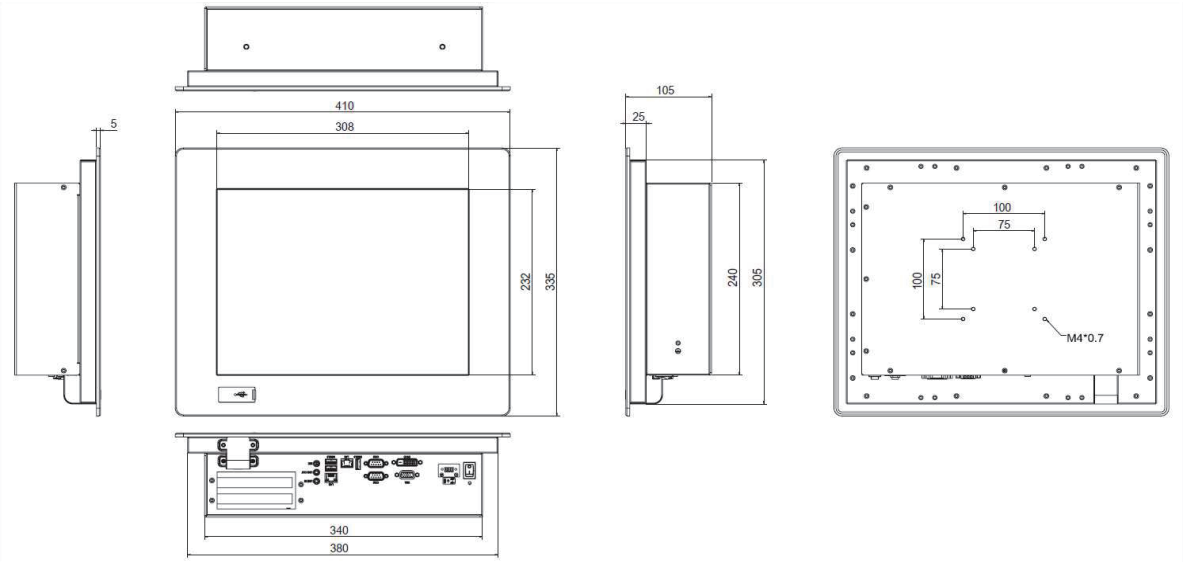
GTN/GHN
Motion Control Card

PCI Slot:



GTS-VB
Motion Control Card

Dimension Drawing



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Googoltech Motion Control Panel PC

Model			
	GMPPC-1201-BT0001	GMPPC-1500-BT0001	GMPPC-1700-BT0001
LCD Size	16:9 12.1”	4:3 15”	4:3 17”
Max. Resolution	XGA 1024x768	XGA 1024x768	SXGA 1280x1024
Luminance (cd/m2)	350	420	250
Contrast Ratio	800	800	1000
Viewing Angle	85(U), 85(D), 85(L), 85(R)	80(U), 80(D), 80(L), 80(R)	85(U), 85(D), 89(L), 89(R)
Backlight	LED		
LCD Color	16.7M	16.2M	16.7M
Touch Screen	12.1” Resistive Single Touch Panel (1 point)	15” Resistive Single Touch Panel (1 point)	17” Resistive Single Touch Panel (1 point)
Touch Light Transmission	79%	79%	80%
CPU	Intel® Celeron® Processor J1900 2.42GHz		
Memory	2 x DDR3L SO-DIMM, up to 8GB, default 2GB		
Storage	1x 2.5” SATA HDD, default 2.5” 64G MLC SSD		
Additional Display Port	VGA/DVI-D		
Ethernet (10/100/1000)	2		
USB2.0/USB3.0	2/1	3/1	3/1
COM Port	2		
Audio	MIC in/ Line in/Line out phone jack		
Power Jack	3-pin Terminal block		
Power Button	Rock switch		
Expansion	2x Mini PCIe/1x PCIe/1x PCI		
Mounting	Panel/VESA 75 x 75mm, 100 x 100mm		
Power Input	12 ~ 24VDC		
Operating Temp.	0°C to 50°C (with SSD)		
Storage Temp.	-20°Cto 60°C		
IP Level	IP65 Front bezel/IP30 Back system		
Certification	CE/FCC, LVD, CB, CCC	CE/FCC, LVD	CE/FCC, LVD
OS Support	Windows 7 Professional/WES 7, WES 8/Windows 8.1/Windows 10/Linux Kernel 3.X		
Dimension (WxHxD)(mm)	320 x 270 x 101 mm	410 x 335 x 105 mm	442 x 377 x 102.5 mm
Weight(kg)	7.5 kg	8.7 kg	9.7 kg

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