

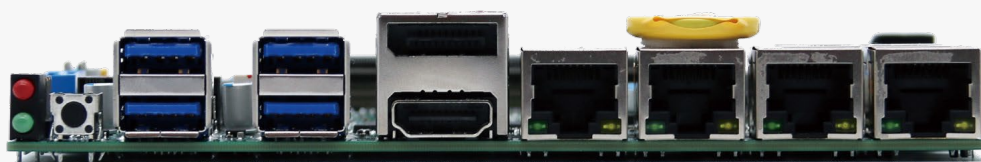
工业3.5英寸主板 GEC-IELK-TW01



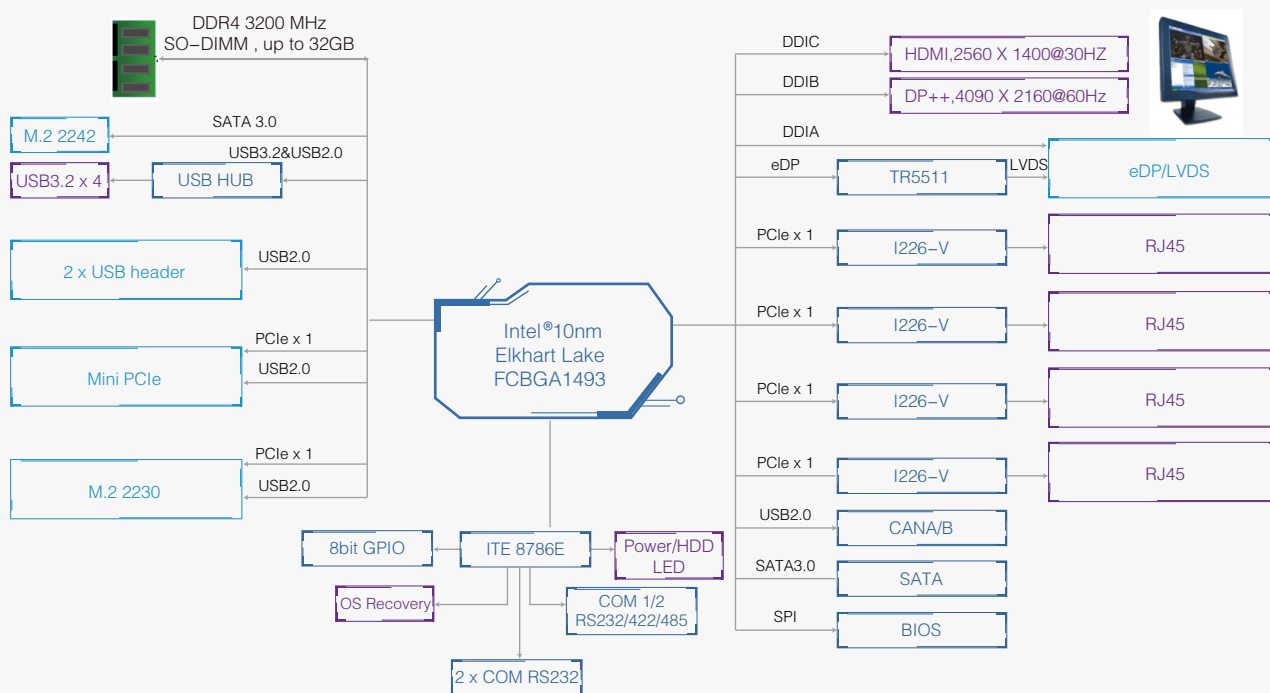
■ 特性 Introduction

- Industrial standard 3.5 inches mainboard
- Intel® Elkhart lake Celeron J6412
- 12~24V wide voltage input
- 4 x Intel® Gigabit Lan, 4 x COM, 6 x USB
- HDMI, DP++, LVDS/eDP
- Remote SW, OS Recovery

■ 正视图 I/O View



■ 方块图 Block Diagram



工业3.5英寸主板

GEC-IELK-TW01

规格 Specification

系统 System

处理器 Processor	Intel® Elkhart Lake J6412 (2.00 GHz)
内存 Memory	1 x DDR4 2666/3200MHz SO-DIMM, Up to 32GB
BIOS	AMI 128Mbit SPI Flash
图形 Graphics	Intel® Integrated Graphics
操作系统 OS	Windows10 64bit, Linux
看门狗定时器 Watchdog Timer	System reset, programmable 255 levels timer interval, from 1~255 sec/min

外部 I/O External I/O

网口 Ethernet	4 x RJ45 Controller Intel® I211-AT/I210-AT GbE (10/100/1000 Mbps)
显示 Video	1 x HDMI: max resolution up to 2560 X 1400@30Hz 1 x DP++: max resolution up to 4096 X 2160@60Hz
USB	4 x USB3.2 (Gen1)
指示灯 LED	1 x Power LED, 1 x HDD LED
OS recovery	1 x OS Recovery 按键

环境 Environmental

操作温度 Operating Temp	0°C ~ 60°C
存储温度 Storage Temp	-40°C ~ 85°C
操作湿度 Operating Relative Humidity	60°C 95%RH
存储湿度 Storage Relative Humidity	60°C 95%RH, 非凝结状态 Non-condensing
随机振动 Random Vibration	5~500Hz, 3.5Grms operation
正弦振动 Sine Vibration	5~500Hz, 2G Non-operation
机械冲击 Shock	Operation: 10G@11ms, Non-operation: 20G@11ms

认证 Certification

安规认证 Safety Certification	CE, FCC, RoHS
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内部接口 Internal I/O

扩展接口 Expansion	1 x Full-size Mini-PCIe Slot (USB/PCIe) 1 x M.2 2242 slot (SATA 3.0) 1 x M.2 2230 slot for Wifi module
显示接口	1 x LVDS/eDP co-lay, ---2CH 24bit LVDS, ---4Lanes eDP
LCD inverter power	1 x LCD inverter power connector, 默认5V, 可选12V
Panel power jumper	1 x Jumper, 默认3.3V, 可选5V
COM	2 x RS232/422/485 auto-flow, 2 x RS232
USB	2 x USB 2.0 pin header
SATA	1 x SATA 3.0 + SATA power
GPIO	1 x 8bit programmable GPIO
音频 Audio	1 x Audio (Line-out&Mic-in) wafer
CAN	1 x CAN 2.0B
SIM	1 x SIM Card Slot
CPU fan	1 x 4pin CPU fan
ATX/AT jumper	1 x ATX/AT jumper
前面板接口 Front panel	1 x Fronte panel (power on/off, reset, power LED , HDD LED)

电源 Power

电源输入 Power Input	12~24V DC
接口	内部接口 2pin 电源接口

机构 Mechanical

尺寸 Dimension	146 x 102 mm, 3.5寸
备注 Remark	CPU背贴

主要销售型号 Sales Model

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