Elkhart Lake IPC x6413E / x6211E / J6412

IPCBAX6413E / IPCBAX6211E / IPCBAJ6412

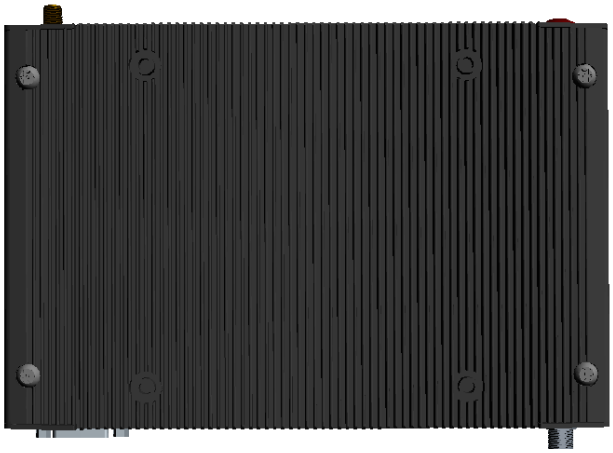
*) Front- & Back-kit Concept - User Manual

- **Elkhart Lake x6413E Mainboard version (IPCBX6413E)**
  - Intel® Atom® x6413E Processor
  - 4 cores with 3.00 GHz burst frequency
  - 8GB RAM Memory & 120GB SSD Storage (customizable)
  - High-performance, standard-cost & good cooling function (suggested for indoor & outdoor use)

- **Elkhart Lake x6211E Mainboard version (IPCBX6211E)**
  - Intel® Atom® x6211E Processor
  - 2 cores with 3.00 GHz burst frequency
  - 4GB RAM Memory & 120GB SSD Storage (customizable)
  - Standard-performance, low-cost, low-heat & low-power consumption (suggested for outdoor)

- **Elkhart Lake J6412 Mainboard version (IPCBJ6412)**
  - Intel® Celeron® J6412 Processor
  - 4 cores with 2.60 GHz burst frequency
  - 4GB RAM Memory & 120GB SSD Storage (customizable)
  - High-performance, low-cost, high-heat & high-power consumption (suggested for indoors)

- **Pre-installed Linux Ubuntu & Supports Windows 10/11**
- **Connectors - to mount on front-kit (screwable)**
- **VESA 100 mounting on back**
- **Integrated LAN & W-LAN**
- **2 year guarantee (24/7 usage)**



faytech's Intel-board IPC back-kits have a pre-installed Linux Ubuntu operating system, with Windows 10/11 available on request. All the IPCs have VESA 100 screw patterns on the back for easy mounting.

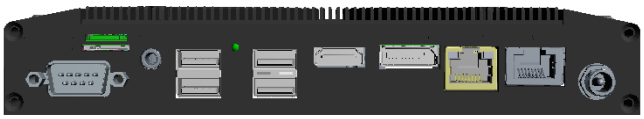
With this solution being a modular system, the back-kit can easily be connected to any of faytech front-kit models using various connectors and 4 screws. The IPCs are build for 24/7 operation and powered by one of the following 3 versions:

- **x6413E Mainboard version**
  Intel® Atom® x6413E Processor, 4-core w/ 3.00 GHz burst - 8GB RAM & 120GB SSD Storage

- **x6211E Mainboard version**
  Intel® Atom® x6211E Processor, 2-core w/ 3.00 GHz burst - 4GB RAM & 120GB SSD Storage

- **J6412 Mainboard version**
  Intel® Celeron® J6412 Processor, 4-core w/ 2.60 GHz burst - 4GB RAM & 120GB SSD Storage

It is the perfect choice for a wide variety of applications, including industrial automation, control panels, POS systems and digital signage, with easily switchable front-kits to ensure longevity.



Legend / Notes	
Applicable to version 1	(v1)
Applicable to version 2	(v2)
Applicable to all Versions	None

Product name	Elkhart Lake IPC (x6413E / x6211E / J6412)
Model number / EAN number	IPCBAX6413E / TBD IPCBAX6211E / TBD IPCBAJ6412 / TBD

Global Article Code	European Article Code	Release date (D/M/Y)	Version*	Global Article Code	European Article Code	Release date (D/M/Y)	Version*
30305012550	-	01/05/2023	v1 (x6413E)				
30305012548	-	01/05/2023	v1 (x6211E)				
30305012549	-	01/05/2023	v1 (J6412)				

PC System (3 available versions)			
Mainboard version	**x6413E (IPCBX6413E)**	**x6211E (IPCBX6211E)**	**J6412 (IPCBJ6412)**
CPU	Intel® Atom® x6413E	Intel® Atom® x6211E	Intel® Celeron® J6412
Total Cores	4	2	4
Burst Frequency	3.00 GHz	3.00 GHz	2.60 GHz
Base Frequency	1.50 GHz	1.30 GHz	2.00 GHz
Cache	1.5MB L2	1.5MB L2	1.5MB L2
TDP (max. power consumption)	9 W	6 W	10 W
Graphic Burst Freq.	750 MHz	750 MHz	800 MHz
Graphic Base Freq.	500 MHz	350 MHz	400 MHz
Memory 1)	8GB RAM	4GB RAM	4GB RAM
Storage 2)	120GB SSD	120GB SSD	120 GB SSD
GPU	Intel® UHD Graphics		
TPM	INFINEON 9672VU2.0 TPM 2.0		
Audio	Realtek® ALC897 Audio CODEC		
Network	10/100/1000Mbit Network; W-LAN		
Pre-installed OS	Linux Ubuntu		
Supported OS	Linux Ubuntu, Windows 10/11		

1) Memory adjustable upon request: range 4GB-32GB
2) Storage adjustable upon request

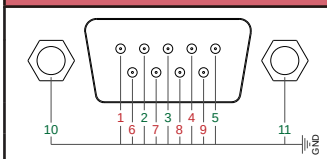
Operation / Mechanical	
Operating Temperature (°C)	-10 ~ +60
Humidity Range (RH)	10% - 90%
Net weight (kg)	2.10
Gross weight (kg)	2.90 (incl. cartonage)
Housing material	Aluminum case
Housing (mm) L × W × H	190.0 × 126.2 × 32.0
Mounting	VESA 100

IP Rating
IP40 (if combined with faytech front-kit)

Power	
Power Indicator	Green LED
Power Supply	100-240V ACDC active switching; 12V DC-Out
Working Power (V)	12
Power Consumption (W)	TDP (see PC System)
Stand-By Consumption (W)	<1

External Connectors	
1x 12V DC-In (screwable)	1x HDMI
1x DisplayPort	2x 10/100/1000Mbit RJ45 Ports (LAN1 PoE)
2x USB 3.0	2x USB 2.0
1x Audio Jack	1x Wi-Fi Antenna (screwable)
1x Micro SD-card slot	1x SIM-card slot
1x COM (RS232) + 1x internal RS485 & 1x internal RS232	

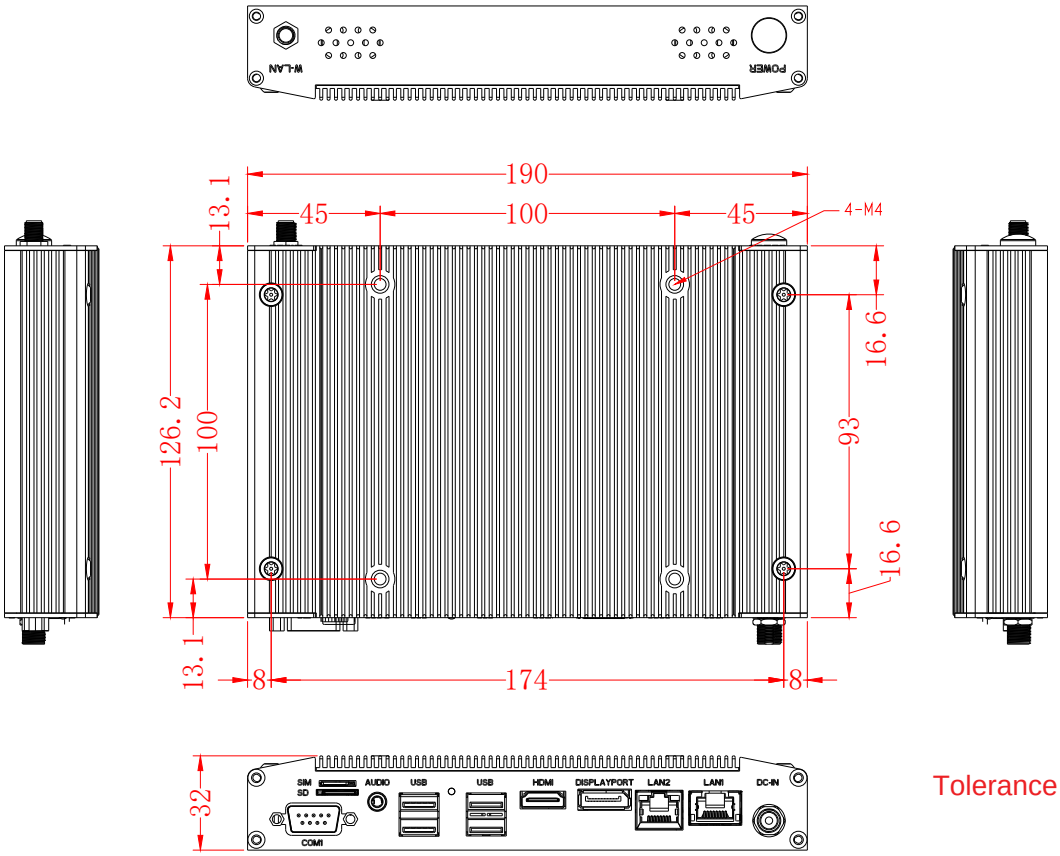
COM (RS232) Pin Definition



2	RXD1
3	TXD1
5	GND
10	GND
11	GND

Connector - front-kit assembly
Various pin connectors with converter for front- / back-kit assembly (see separate pdf sheet)

Included in the Delivery
Power Supply (see Power section)
W-LAN Antenna (RP-SMA female)
Short Installation Manual



Tolerance：ISO 2768-1c

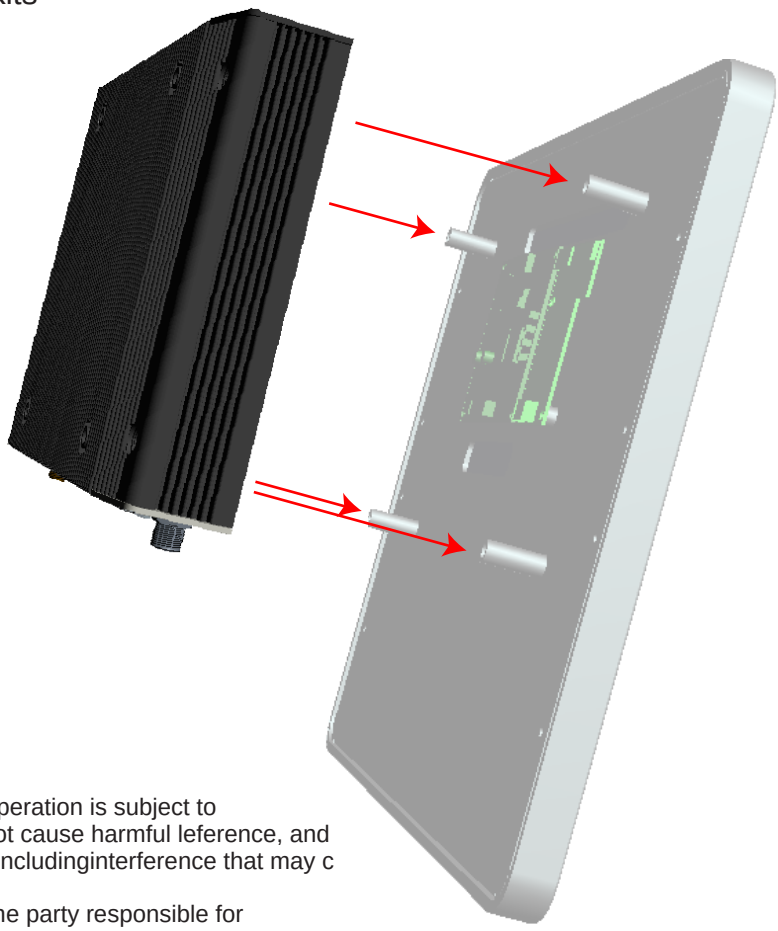
Front- & Back-kit concept:

Pre-assembled (together) or separately packaged available

Easily replace or switch back- or front-kits

Connected through various connectors

Assembly to be done by a professional



Update Notes:

Version:		Changes:
v1	-	First version

This device complies with part 15 of the FCC Rules.Operation is subject to
the followina two conditions: (1) This cmdevice may not cause harmful leference, and
(2) thisdevice must accept any interference received, includinginterference that may c
ause undesired operation.
changes or modifications not expressly approved by the party responsible for
compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to complywith the limits
for a Class B digital device pursuant to part 15of the FCC Rules. These limits are
desi
gned to providereasonable protection against harmful interference in aresidential
insta
llation. This equipment generates, uses andcan radiate
radio frequency energy and, if not installed andused in accordance with the
instructions, may cause harmfulinterference to radio communications.
However, there is noguarantee that interference will not occur in a
particularinstallation. If this equipment does cause harmfulinterference to
radio or television reception which can bedetermined by turning the
equipment off and on, the user isencouraged to try to correct the interference by one o

r moreof the following measures:
Reorient or relocate the receiving antenna.Increase the separation between
the equipment andreceiver.
Connect the equipment into an outlet on a circuit differentfrom that to which
the receiver is connected.Consult the dealer or an experienced radio/TV
technicianfor help.
FCC RF Exposure Warning Statement: This equipmentcomplies with FCC
radiation exposure limits set forth for anuncontrolled environment. This
equipment shall be installedand operated with minimum distance 20cm
between theradiator & body.

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