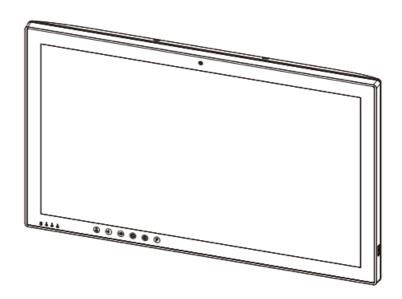
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FLYTECH K95A Panel PC Hardware System User Manual

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USER MANUAL



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Safety

IMPORTANT SAFETY INSTRUCTIONS

- 1. To disconnect the machine from the electrical power supply, turn off the power switch and remove the power cord plug from the wall socket. The wall socket must be easily accessible and in close proximity to the machine.
- 2. Read these instructions carefully. Save these instructions for future reference.
- 3. Follow all warnings and instructions marked on the product.
- 4. Do not use this product near water.
- 5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- 6. Slots and openings in the cabinet and the back or bottom are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register or in a built-in installation unless proper ventilation is provided.
- 7. This product should be operated from the type of power indicated on the marking label. If you are not sure of

- the type of power available, consult your dealer or local power company.
- 8. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- 9. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 10. To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
- 11. No modification of this equipment is allowed.
- 12. Power supply is specified as part of medical equipment.
- 13. The medical PC can be cleaned in accordance with normal clinical cleaning practices, including wiping with water or medical grade wipes, provided no substance containing acids or cleaning alkali liquids is used.
- 14. Medical grade wipes must not contain more than 80% alcohol content measured against the total content of the wipe.
- 15. Operator shall not contact patient simultaneously when in use with the medical computer.



This device complies with the requirements of the EEC directive 2014/30/EU with regard to "Electromagnetic compatibility" and 2014/35/EU "Low Voltage Directive".



This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.



MEDICAL-GENERAL MEDICAL EQUIPMENT WITH RESPECT TO ELECTRICAL SHOCK, FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH ANSI/AAMI ES60601-1 (2005 and Amendment 1), CAN/CSA-C22.2 NO.60601-1(2014)

CAUTION ON LITHIUM BATTERIES

There is a danger of explosion if the battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.



Battery Caution

Risk of explosion if battery is replaced by an incorrectly type. Dispose of used battery according to the local disposal instructions.



Safety Caution

Note: To comply with IEC60950-1 Clause 2.5 (limited power sources, L.P.S) related legislation, peripherals shall be 4.7.3.2 "Materials for fire enclosure" compliant.

4.7.3.2 Materials for fire enclosures

For MOVABLE EQUIPMENT having a total mass not exceeding 18kg the material of a FIRE ENCLOSURE, in the

thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2. For MOVABLE EQUIPMENT having a total mass exceeding 18kg and for all STATIONARY EQUIPMENT, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of 5VB CLASS MATERIAL or shall pass the test of Clause A.1

LEGISLATION AND WEEE SYMBOL

2012/19/EU Waste Electrical and Electronic Equipment Directive on the treatment, collection, recycling and disposal of electric and electronic devices and their components.



The crossed dust bin symbol on the device means that it should not be disposed of with other household wastes at the end of its working life. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.

IEC Standards

Accessory equipment connected to the analog and digital interfaces must be in compliance with the respective nationally harmonized IEC standards (i.e. IEC 60950 for data processing equipment, IEC 60065 for video equipment, IEC 61010-1 for laboratory equipment, and IEC 60601-1 for medical equipment.)

Furthermore, all configurations shall comply with the system standard IEC 606 01-1. Anyone who connects additional equipment to the signal input part or signal output part is configuring a medical system, and is therefore, responsible that the system complies with the requirements of the system standard IEC 60601-1.

The unit is for exclusive interconnection with IEC 60601-1 certified equipment in the patient environment and IEC 60XXX certified equipment outside of the patient environment. If in doubt, consult the technical services department or your local representative.

Troubleshooting

For your own safety and that of your equipment, always take the following precautions. Disconnect the power plug (by pulling the plug, not the cord), from your computer if any of the following conditions exists:

- The power cord or plug becomes frayed or otherwise damaged.
- · You spill something into the system.
- Your computer has been dropped or damaged.
- You suspect that your computer needs service or repair.
- · You want to clean the computer or screen.
- You want to remove/install any parts.

Repair of the device may only be carried out by the manufacture.

We recommend that a service contract be obtained with supplier and that all repairs also be carried out by them. Otherwise the correct functioning of the device may be compromised.

- In case of serious incident that has occurred, please contact the manufacturer and local authorities immediately.
- Please use suitable mounting apparatus to avoid risk of injury. It shall be mounted by trained and authorized personnel on adequate allowances for quality of materials used to make the connection.
- It is recommended to install the appropriate software, if have any question, please contact the manufacturer for further assistance.
- To prevent unauthorized access, it is recommended to install suitable anti-virus software or do not connect to unsafe external networks.

Symbol Definition

| Symbol | Definition |
|--------|--|
| | ISO 7010-M002: Follow instructions for use |
| === | IEC 60417-5031: Direct Current |
| \sim | IEC 60417-5032: Alternating Current |
| பு | IEC 60417 -5009: STAND-BY |
| | ISO 7000 – 2497: Data of manufacture |
| MD | ISO 15223-1:2021: Medical Device |

EMC Table

| Emission EN 60601-1-2:2015 / IEC 60601-1-2:2014 | | | | |
|--|---------------------------------------|---------|----------|--------|
| Standard(s) | Test Item | Limit | Results | Remark |
| CISPR 11:2009+A1:2010 (Group 1) | Mains terminal disturbance voltages | Class B | Complied | _ |
| Olor 11 11.2003+A1.2010 (Gloup 1) | Electromagnetic radiation disturbance | Class B | Complied | _ |

| Standard(s) | Test Item | Limit | Judgment | Remark |
|--------------------|---|---------|----------|--------|
| EN 61000-3-2: 2014 | Harmonic current emissions | Class D | Complied | _ |
| EN 61000-3-3: 2013 | Voltage changes, voltage fluctuations and flicker | _ | Complied | _ |

Immunity EN 60601-1-2:2015 / IEC 60601-1-2:2014

| Basic Standards | Environmental phenomenon | Pass/Fail c riteria | Resu Its |
|--|--|------------------------|--------------|
| EN 61000-4-2: 2009 | Electrostatic discharge | | Com plied |
| EN 61000-4-3: 2006 +A1: 2 008 +A2: 2010 | Radiated RF EM fields and Proximity fields from RF wireless communications equipment | | Com plied |
| EN 61000-4-4: 2012 | Electrical fast transients / bursts | | Com plied |
| EN 61000-4-5: 2014 +A1: 2 017 | Surges | Refer to cla use 5.2. | Com plied |
| EN 61000-4-6: 2014 +AC: 2 015 | Conducted disturbances induced by RF fields | | Com plied |
| EN 61000-4-8: 2010 | RATED power frequency magnetic fields | | Com plied |
| EN 61000-4-11: 2004 | Voltage dips and Voltage | | Com plied |

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) For equipment with a rated power of 75 W or less, limits are not specified.
- (3) Keep the device away from other Peripheral devices for at least 0.1m in order to prevent EMC disruption to other medical devices.

- Malfunction
- · Non-operation when operation is required; unwanted operation when no operation is required
- Deviation from normal operation that poses an unacceptable RISK to the PATIENT or OPERATOR
- · Component failures
- Change in programmable parameters
- Reset to factory default (MANUFACTURER's presets)

• a FALSE NEGATIVE ALARM CONDITION (failure to alarm)

- Change of operating mode
- a FALSE POSITIVE ALARM CONDITION

Fail cri teria

- Cessation or interruption of any intended operation, even if accompanied by an ALARM SIGNAL
- Initiation of any unintended operation, including unintended or uncontrolled motion, even if accomp anied by an ALARM SIGNAL
- · Error of a displayed numerical value sufficiently large to affect diagnosis or treatment
- Noise on a waveform in which the noise would interfere with diagnosis, treatment or monitoring
- Artefact or distortion in an image in which the artefact would interfere with diagnosis
- Treatment or monitoring
- Failure of automatic diagnosis or treatment ME EQUIPMENT or ME SYSTEM to diagnose or treat, even if accompanied by an ALARM SIGNAL.

Revision History

Changes to the original user manual are listed below:

| Revision | Description | Date |
|----------|-----------------|----------------|
| 1.0 | Initial release | September 2023 |

1. Intended Use

The Medical Computer is a computing device capable of storing, retrieving and sending data electronically. This Medical Computer, including its user interface, RTC battery, PCB and power supply, is intended to be fixed to a VESA wall mount in medical care environment. This Medical Computer Hardware System must be operated by professional personnel (i.e., doctor, nurse...).

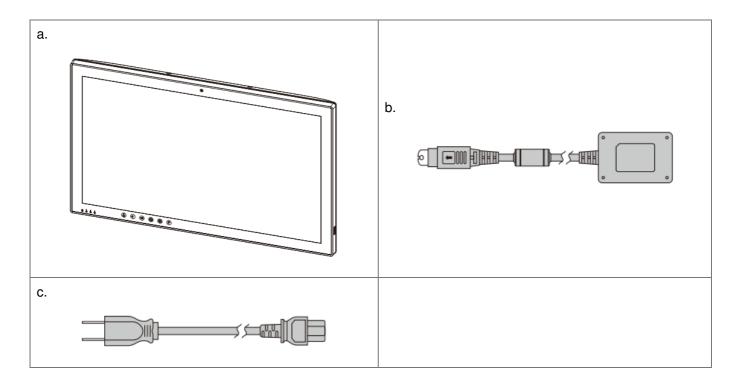
Application: Access to patient records / Hospital administration system / Bed management.

Cleaning method

- Turn off the system and disconnect the power cord and remove batteries before cleaning the system.
- The monitor can be cleaned by wiping external surface of enclosure with ethanol (not more than 75%) solution, 2 times a week.
- Spread the cleaning liquid onto a sponge or cloth and then wipe the touch screen gently.
- When wiping, avoid any openings and gaps and be careful not to allow liquid to seep into the place.

2. Packing List

2-1. Standard Items

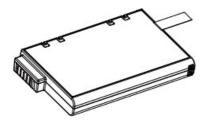


- a. System
- b. Power adapter
- c. Power cord

Note: Power cord will be supplied differently according to various region or country.

2-2. Optional Items

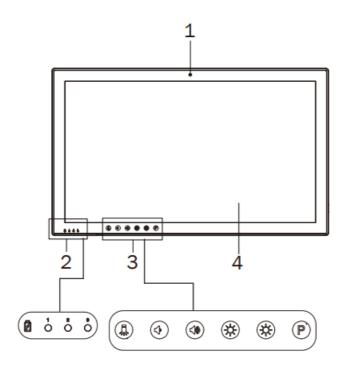
a.

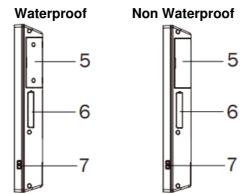


a. Battery

3. System View

3-1. Front & Side View

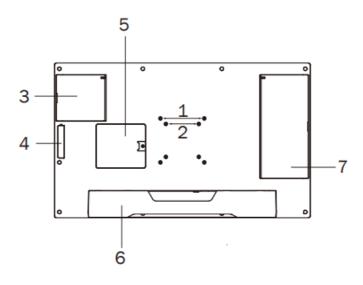


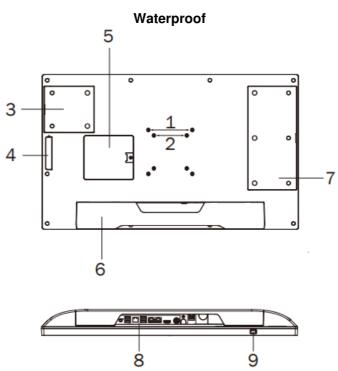


| Item No. | Description |
|-------------|---|
| 1 | 5M front camera (option) |
| 2 | batteries status |
| 3 | capacitive sensor touch function keys (from left to right: LED reading light/ Volume down/ Volume up/ Brightness down/ Brightness up/ Progra mmable function key) |
| 4 | 23.8" true flat PCAP multi-touch |
| 5 | Battery cover |
| 6 | Dummy cover of smart card reader |
| 7 | Power button |

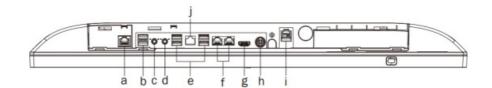
3-2. Rear & Bottom View

Non Waterproof



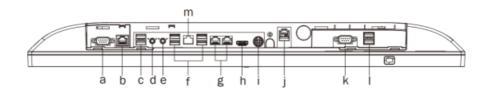


| Item No. | Description |
|----------|----------------------------------|
| 1 | 100 x 100 VESA mounting holes |
| 2 | 75 x 75 VESA mounting holes |
| 3 | Single battery cover |
| 4 | Dummy cover of smart card reader |
| 5 | Service door |
| 6 | Cable cover |
| 7 | Double battery cover |
| 8 | I/O ports |
| 9 | LED reading light |



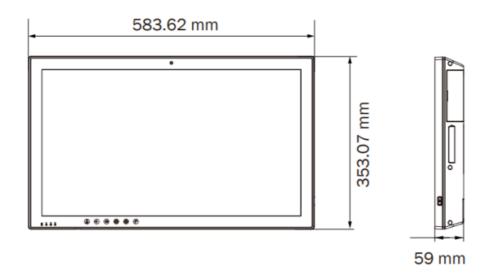
| Item No. | Description |
|----------|---------------------|
| a | 2 nd LAN |
| b | USB 2.0 (x2) |
| С | Mic in |
| d | Line out |
| е | USB 3.0 (x4) |
| f | COM 1, 2 |
| g | HDMI |
| h | DC in |
| i | Powered USB 24V |
| j | LAN |

3-3-2. Full Function



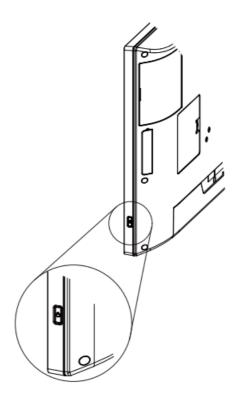
| Item No. | Description |
|----------|---------------------|
| a | COM 3 |
| b | 2 nd LAN |
| С | USB 2.0 (x2) |
| d | Mic in |
| е | Line out |
| f | USB 3.0 (x4) |
| g | COM 1, 2 |
| h | HDMI |
| i | DC in |
| j | Powered USB 24V |
| k | COM 4 |
| I | USB 2.0 (x2) |
| m | LAN |

3-4. Dimensions



4. Basic Operation

4-1. Power ON & OFF



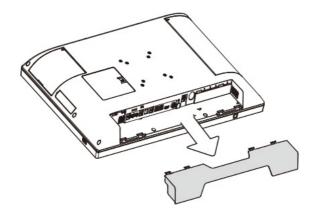
To activate the system, push and quickly release the power button and the display will come on in a few seconds. **NOTE:** The system must be plugged into power adapter or battery charged before turning on for the first time.

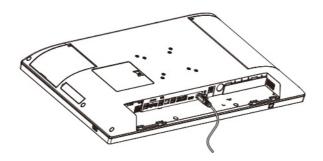
To turn off the system, power off the device safely using software function that "shuts down computer" provided in the operating system.

4-2. Charge the Battery

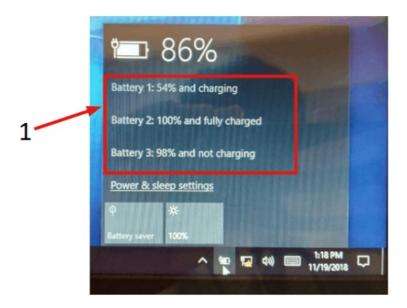
The system is equipped with 3 hot-swappable batteries.

- 1. The batteries may be charged by connecting the supplied power adapter directly to the DC-in port on the system.
- 2. Open the cable cover and plug the cable directly into the connector. Then plug the adapter directly into the power outlet.





The system will charge in the order of battery 1 to battery 3.



1. Status will show the capacity of each battery.

4-3. Battery Level Indication

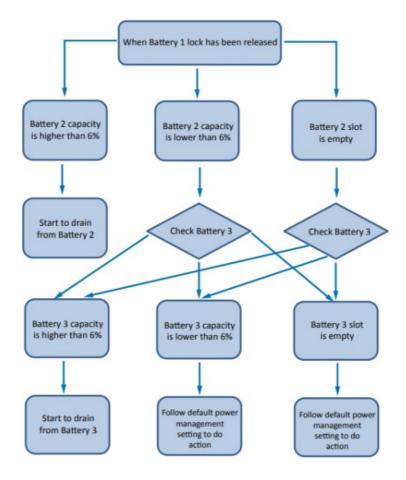
Each battery provides an battery level indicator LED on the front of the system. The signals charge status are as follows:

| | Battery | Battery full charged | GREEN |
|--------------|---------------------|--|-------------------------------|
| | | Battery charging | GREEN blinks slowly |
| | | Battery standby | GREEN |
| DC in Mode | | Battery error | AMBER blinks quickly |
| DC III WIOGE | Without battery | No signal | |
| | | Battery full charged | GREEN |
| | Battery / Power off | Battery charging | GREEN blinks slowly |
| | | Battery standby | GREEN |
| | Battery | Battery discharging | ORANGE blinks slowly |
| | | Battery standby | GREEN |
| | | Battery lower than 12%, higher than 6% | AMBER blinks slowly |
| Battery Mode | | Battery lower than 6% | AMBER |
| Battery Mode | | Battery error | AMBER blinks quickly |
| | Without battery | No signal | |
| | Battery / Power off | No signal | |
| | Battery / Power off | All batteries lower than 6% | AMBER lights up for 6 seconds |

4-4. Battery Discharging Mode Flowchart

When the battery cover is closed, the system will adjust the charging and discharging process which starts from battery 1 each time.



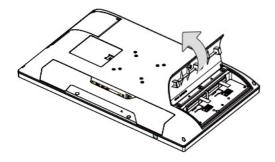


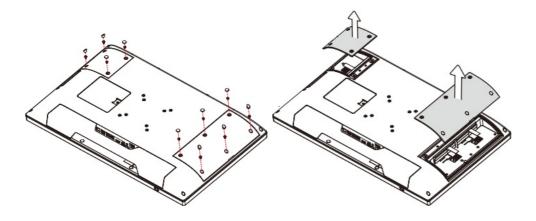
- 1. If all batteries capacity is lower than 3%, the system will be forced to shut down after 5 seconds.
- 2. If battery capacity in power management setting is higher than default capacity, the system will be followed the power management setting.

5. System Assembly

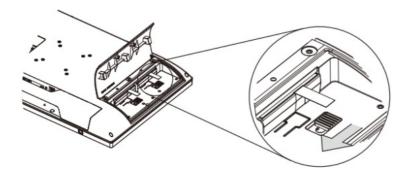
5-1. Replace the Battery

- 1. Place the system face down, make sure not to scratch the screen.
- 2. Lift the battery cover.

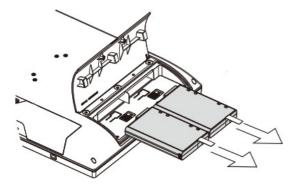




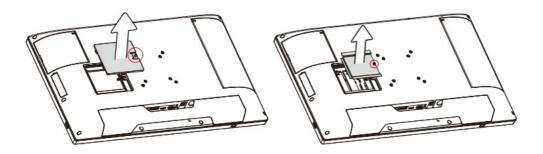
*If you are using a K95A waterproof system, the battery covers are secured by screws. Remove the rubber pads (x10) and screws (x10) to release the battery covers.



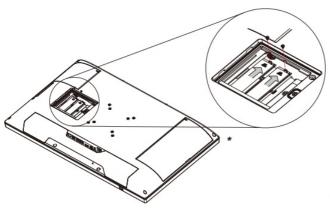
- 3. Slide the latch down as shown to unlock.
- 4. Pull the plastic puller (see picture) to release the battery out of the system.



5-2. Replace the M.2 SSD Card



- 1. Loosen the screw (x1) to release the service door.
- 2. Loosen the screw (x1) to release the metal bracket.
- 3. Remove one or two screws and pull the M.2 SSD card(s) outwards as shown in the picture.



* You may use only one M.2 SSD card

6. Specification

| Model Name | K95A |
|--------------------------|--|
| Mainboard | F87U |
| CPU | Intel® Core™ i5-1145G7E |
| System memory | 2 x SO-DIMM, DDR4 3200MHz (32GB Max) |
| Graphic memory | Intel® Iris® Xe Graphics |
| TPM 2.0 | NUVOTON 750 (option) |
| LAN controller (GigaLAN) | Intel WG I219 LM (1 st LAN); Intel WG I225 IT (2 nd LAN) |
| LCD/Touch Panel | |
| LCD size | 23.8" LED (LVDS) |
| Brightness | 250 nits |
| Maximal resolution | 1920 x 1080 |
| Touch screen type | True flat projected capacitive touch |
| Storage | |
| Flash memory | M.2 SATA SSD or NVMe SSD |
| Peripherals (option) | |
| Web cam | 1 x 5M (USB) |
| RFID (front) | 1 (USB) |
| RFID (rear) | 1 (USB) |
| Smart card reader | 1 (USB) |
| SIM Slot (SKU2) | 1 |
| Isolation board (SKU2) | 2 x USB2.0 ; 1 x DB9 |
| Expansion | |

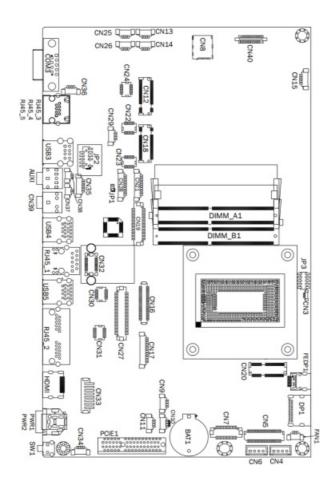
| | SKU1: E-key 2230 for WLAN / M-key 2280 for storage / B-key 2280 for storag e (RAID) | |
|------------------------|---|--|
| M.2 | SKU2: E-key 2230 for WLAN / M-key 2280 for storage / B-key 2280 for storag e either one 3052 for USB (4G/5G module) | |
| External I/O Ports | | |
| USB | 2 x USB 2.0 / 4 x USB 3.0 (Standard) 4 x USB 2.0 / 4 x USB 3.0 (Full function) | |
| Serial / COM | 2 x RJ45 | |
| Mic-in | 1 | |
| Line-out | 1 | |
| HDMI | 1 | |
| LAN | 2 x RJ45 | |
| DC jack | 1 x Latch type (4pin) | |
| Powered USB | 1 x 24V | |
| Isolated COM DB9 | 2 (Full function) | |
| Equipotential port | Blind hole (option) | |
| Control/ Indicate | | |
| Power button | 1 (w/ LED indicator ; blue on the side) | |
| LED indicator | 3 (dual color LED indicators for 3 battery status) | |
| Audio | | |
| Speaker | 1 x 3W | |
| Power | | |
| Wide range voltage | 12V ~ 48V | |
| Power adapter | DC 19V / 120W | |
| Battery | | |
| Battery | 3 x hot swappable battery | |
| Battery life | 10.2 hours base on normal usage with 3 battery | |
| Charging time | 5 hours with 1 battery (Validated charging from 6% to 99%) | |
| Communication | | |
| Wireless LAN+Bluetooth | N+Bluetooth 802.11 A/B/G/N/AC/AX, 2.4G/5/6GHz, BT4.2 | |
| Certificate | | |
| EMC & Safety | FCC / CE Class B, LVD, UL | |
| ESD | 8kV Contact discharge, 15kV Air discharge | |

| | IEC / EN 60601-1 | | | |
|---------------------------------|---|--|--|--|
| Certification | IEC / EN60601-1-2:2015 | | | |
| | RoHS | | | |
| | WEEE | | | |
| | REACH | | | |
| Color | Snow white | | | |
| Environment | | | | |
| Dust & Water proof | IP65 compliant front panel | | | |
| | IPX1 (back enclosure) (option) | | | |
| Operating temperature | 0°C ~ 35°C (32°F ~ 95°F) charge | | | |
| | 0°C ~ 40°C (32°F ~ 104°F) discharge | | | |
| Storage/Transportation tempera | -20° ~ 60°C (-4°F ~ 140°F) | | | |
| ture | -20° ~ 60°C (-4°F ~ 140°F) | | | |
| Operating /Storage/ Transportat | 10% – 90% RH non-condensing | | | |
| ion humidity | 10% – 90% nn hon-condensing | | | |
| Operating /Storage/ Transportat | 0.0000 | | | |
| ion altitude range | 0-2000m | | | |
| Operating /Storage/ Transportat | 000 1000kD- | | | |
| ion pressure range | 800-1060hPa | | | |
| Dimensions (W x H x D) | 583 x 59 x 353 mm | | | |
| Weight (N.W.) | 8.3 KG (w/o option) | | | |
| Mounting | 75mm x 75mm /100mm x 100mm standard VESA / panel mount | | | |
| Mounting | *Wall mount screw: M4 x 4pcs (Min. 12 mm in screw length) | | | |
| OS support | UEFI: Windows IOT 10 2021 H2 / Windows 11 (64-bit) | | | |
| оо эирроп | Linux:vUbuntu, Fedora | | | |

^{*}This specification is subject to change without prior notice.

7. Configuration

7-1. F87U Motherboard Layout



7-2. Connectors & Functions

| Connector | Function | | |
|------------------------------------|-------------------------------------|--|--|
| CN4/CN6 | SATA power connector | | |
| CN5 | DP/HDMI 40P connector | | |
| CN7 | Charger BD connector | | |
| CN8 | Micro-SD card socket | | |
| CN9/CN10/CN11/CN13/ CN14/CN25/CN26 | Internal USB 2.0 connector | | |
| CN12 | M.2 slot, B-Key for storage | | |
| CN15 | EC debug connector | | |
| CN16 | 40Pin eDP Connector | | |
| CN17 | LVDS connector (power) | | |
| CN18 | M.2 slot, M-Key for storage | | |
| CN19 | Bedside connector | | |
| CN20 | M.2 slot, E-Key for wireless card | | |
| CN21 | COM5 connector | | |
| CN22/CN30 | USB to LAN connector (option) | | |
| CN23 | USB to COM4/COM5 connector (option) | | |
| CN24 | USB to COM3 connector (option) | | |

| CN27 | LVDS connector | | |
|--|--------------------------------|--|--|
| CN28 | COM4 connector | | |
| CN29/CN36 | LAN2 LED connector | | |
| CN31 USB to COM1/COM2 connector (option) | | | |
| CN32 | OOB connector | | |
| CN33 Charger battery BD connector | | | |
| CN34 4Pin power button w/2 LED connector | | | |
| CN35 Speaker & MIC connector | | | |
| CN37 Speaker L connector | | | |
| CN38 | Speaker R connector | | |
| CN39 Audio jack | | | |
| CN40 | Power sequence test connector | | |
| DIMM_A1/DIMM_B1 | SO-DIMM socket | | |
| PCIE1 | PCI-E X4 slot | | |
| BAT1 | RTC battery connector | | |
| FAN1 | FAN connector | | |
| DP1 | DP connector | | |
| FEDP1 | 2 nd FeDP connector | | |
| SW1 | Power button | | |
| PWR1/PWR2 | DC-In connector | | |
| HDMI | HDMI connector | | |
| AUXI | MIC-In connector | | |
| RJ45_1 | LAN connector | | |
| RJ45_2 | COM1/COM2 connector | | |
| RJ45_3/RJ45_4/RJ45_5 | LAN2 connector | | |
| COM3 | COM3 connector | | |
| USB3 | USB 2.0 connector | | |
| USB4/USB5 | USB 3.0 connector | | |
| JP1 | Speaker selection jumper | | |
| JP2 | TPM connector | | |
| JP3 | LCD ID jumper | | |

Note: Connectors and jumpers will be different according to product difference, the real object should be considered as final. Contact your POS Systems authorized distributor or reseller for technical information or specific device configuration.

7-3. Jumper Setting

Speaker Selection Jumper

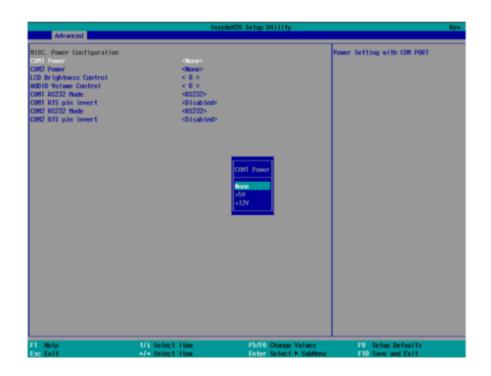
| Function | JP1 |
|----------------------|--------|
| Stereo | 1 2 |
| ▲ Rserved (Line-out) | 1 2 |

LCD ID Jumper

| Panel# Resolution | LVDS | | Output Interface | JP3 | |
|-------------------|------------------|------|------------------|------------------|-------------------------|
| | riesolution | Bits | Channel | Output interrace | 01.0 |
| 13 | SSC function use | | | LVDS Panel | 1 3 5 7 9 2 4 6 8 10 |
| 15 | 1920 x 1080 | 24 | Dual | LVDS Panel | 1 3 5 7 9 2 4 6 8 10 |

COM1/COM2 Power Setting

COM1, COM2 can be set to provide power to your serial device. The voltage can be set to +5V or +12V in the BIOS.



- 1. Power on the system, and press the key when the system is booting up to enter the BIOS Setup utility.
- 2. Select the Advanced tab.
- 3. Select MISC. Power Configuration Ports and press <Enter> to go to display the available options.
- 4. To enable the power, select COM1 ,COM2 Power setting and press <Enter>. Select Power and press <Enter>. Save the change by pressing F10.

Documents / Resources

| USER MANUAL | |
|-----------------------------|--|
| Panel PC Hardware System | FLYTECH K95A Panel PC Hardware System [pdf] User Manual K95A Panel PC Hardware System, K95A, Panel PC Hardware System, Hardware System, System |

References

User Manual

Manuals+, Privacy Policy

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