



BiBox 15-I58 v.4 - Solid 15 inch computer panel, 1000 nit screen, i5-8250U, 8GB RAM, 256GB SSD, 2x RS232, 2x RJ45, - For HMI and production automation systems

|                                 |                                                               |
|---------------------------------|---------------------------------------------------------------|
| <b>Category:</b>                | Industrial Panel PC Computers                                 |
| <b>Manufacturer:</b>            | Mobilator                                                     |
| <b>Screen size:</b>             | 15"                                                           |
| <b>Resolution:</b>              | 1024x768                                                      |
| <b>Aspect ratio:</b>            | 4:3                                                           |
| <b>Touchscreen:</b>             | Capacitive (10-points)                                        |
| <b>Chipset:</b>                 | Intel 300 series (Sunrise Point-LP)                           |
| <b>CPU Support:</b>             | 4x max. 3.4 GHz Turbo, 8 wątków                               |
| <b>Installed CPU:</b>           | Intel Core i5-8250U                                           |
| <b>Memory Support:</b>          | DDR4                                                          |
| <b>Installed Memory:</b>        | 8GB RAM                                                       |
| <b>Graphic Card:</b>            | CPU Integrated graphics card Intel HD graphics                |
| <b>Audio:</b>                   | Realtek ALC662   High Definition Audio (HD)Line in   Line out |
| <b>Storage (HDD) Support:</b>   | SSD                                                           |
| <b>Installed Storage (HDD):</b> | 256GB SSD                                                     |

|                                |                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CD/DVD Drive:</b>           | No                                                                                                                                                                                        |
| <b>LAN:</b>                    | 2×Realtek RTL 8111H Gigabit Ethernet                                                                                                                                                      |
| <b>Wireless LAN card:</b>      | WiFi (standard) - (option)   WiFi 6 (option)                                                                                                                                              |
| <b>Bluetooth:</b>              | <b>Bluetooth</b>                                                                                                                                                                          |
| <b>3G:</b>                     | No, (option)                                                                                                                                                                              |
| <b>4G LTE:</b>                 | No, (option)                                                                                                                                                                              |
| <b>GPS:</b>                    | No                                                                                                                                                                                        |
| <b>TV Tuner:</b>               | No                                                                                                                                                                                        |
| <b>Watch Dog Timer:</b>        | Yes                                                                                                                                                                                       |
| <b>Ports - front panel:</b>    | No                                                                                                                                                                                        |
| <b>Ports - rear panel:</b>     | 2xUSB 2.0   2xUSB 3.0   1xHDMI   2xLAN   1xEAR   1xMIC Power DC12V, 9-36V (option)   4xRS232 (option) 2xRS232 1xRS485 (option) [instead of 1xRS232] 1xRS422 (option) [instead of 1xRS232] |
| <b>Ports - left panel:</b>     | No                                                                                                                                                                                        |
| <b>Ports - right panel:</b>    | No                                                                                                                                                                                        |
| <b>Power:</b>                  | External PowerSupply AC100-240VWorking voltage DC12V, 9-36V (option) Power consumption ≤60W                                                                                               |
| <b>Supported OS:</b>           | Windows 11, Windows 10, linux                                                                                                                                                             |
| <b>Installed OS:</b>           | None, (option - Windows 11 Pro licence)                                                                                                                                                   |
| <b>Dimensions:</b>             | 353.6 x 277.6 x 51.8 mm                                                                                                                                                                   |
| <b>Weight:</b>                 | 3.9kg                                                                                                                                                                                     |
| <b>Expansion:</b>              | No                                                                                                                                                                                        |
| <b>Fanless:</b>                | Yes                                                                                                                                                                                       |
| <b>Humidity:</b>               | 5% - 95% Non-Condensing                                                                                                                                                                   |
| <b>Temp:</b>                   | -15°C to 70 °C                                                                                                                                                                            |
| <b>Storage Temp:</b>           | -20°C to 80°C                                                                                                                                                                             |
| <b>IP Norm:</b>                | 65 (front)                                                                                                                                                                                |
| <b>IP Level (back panel):</b>  | None                                                                                                                                                                                      |
| <b>IP Level (front panel):</b> | IP65                                                                                                                                                                                      |

|                                                   |                                                               |
|---------------------------------------------------|---------------------------------------------------------------|
| <b>Dual display:</b>                              | Nie                                                           |
| <b>Response time touch-panel (ms):</b>            | 15 ms                                                         |
| <b>Contrast Ratio:</b>                            | 800:1                                                         |
| <b>Brightness:</b>                                | <b>1000 nits</b>                                              |
| <b>Viewing Angle:</b>                             | 80°/80°/85°/85°(L/R/U/D)                                      |
| <b>Backlight MTBF:</b>                            | No                                                            |
| <b>Color Resolution:</b>                          | 16.7M                                                         |
| <b>Surface hardness (display):</b>                | 7H                                                            |
| <b>Touch Life(contacts):</b>                      | ---                                                           |
| <b>Housing material:</b>                          | Narrow Bezel Style, (option - Aluminum Bezel Style            |
| <b>Mounting VESA:</b>                             | 100 x 100 mm   75mm x 75mm                                    |
| <b>Folding Bracket (for office type working):</b> | No, (opcja)                                                   |
| <b>Power Consumption:</b>                         | ---                                                           |
| <b>Others:</b>                                    | No                                                            |
| <b>Anti-vibration:</b>                            | 5-500Hz,0.026G <sup>2</sup> /Hz,2.16Grms,X,Y,Z1 hour per axis |
| <b>Anti-shock:</b>                                | No                                                            |
| <b>RFID scanner (reader):</b>                     | No                                                            |
| <b>Barcode reader:</b>                            | No                                                            |

**740,22 €**  
net price: 601,81 €

# BiBox 15-I58



## SPECIFICATION AND PARAMETERS

## DISPLAY AND TOUCH

## HOUSING

## CONNECTORS AND COMMUNICATION

## RESISTANCE AND PROTECTION

## APPLICATION

## AVAILABLE VERSIONS AND ACCESSORIES

The PC 15-I58 industrial panel is a multi-tasking device combining

the functions of the touch screen and a PC. The construction is adapted to difficult conditions and is resistant to extremely low and high temperatures, high humidity, contact with water and high levels of dust. The characteristics of these panels are primarily operational stability in various conditions and high efficiency.

SPECIFICATION AND PARAMETERS

| Performance       |                                                                  |
|-------------------|------------------------------------------------------------------|
| Processor         | Intel Core i5-8250U<br>[4 cores, 8 threads, 1.6GHz/turbo 3.4GHz] |
| Graphics card     | Integrated graphics Intel HD Graphics                            |
| Operating systemy | Support Windows 11<br>Windows 11 Pro<br><b>*optional</b>         |
| RAM               | 8GB DDR4                                                         |
| Drive             | 256GB SSD                                                        |
| Display           |                                                                  |
| Screen            | 15" 1024x768                                                     |
| Touch screen      | Capacitive (10-points)                                           |
| Brightness        | 1000cd/m <sup>2</sup>                                            |
| Screen ratio      | 4:3                                                              |
| View angle        | 85/85/85/85(R/L/U/D)                                             |
| Interfaces        |                                                                  |
|                   |                                                                  |

|                 |                                                                                                                                                                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Communication   | WiFi (standard)<br>  WiFi 6<br><b>*optional</b><br>Bluetooth<br>  4G<br><b>*optional</b><br><br>2xMini-PCIe expansion slot                                                                                                                     |
| Connectors      | 2xUSB 3.0   2xUSB 2.0   1xHDMI<br>2xLAN   1xEAR   1xMIC<br>4xCOM<br><b>*optional</b>  <br>DC 12V, 9-36V<br><b>*optional</b><br>2xRS232<br>1xRS485<br><b>*optional</b> (instead of 1xRS232)<br>1xRS422<br><b>*optional</b> (instead of 1xRS232) |
| Other           |                                                                                                                                                                                                                                                |
| Dimensions      | 353.6 x 277.6 x 51.8 mm                                                                                                                                                                                                                        |
| Weight          | 3.9 kg                                                                                                                                                                                                                                         |
| Casing material | Metal [Narrow Bezel Style]<br>Aluminium [Aluminium Bezel Style]<br><b>*optional</b>                                                                                                                                                            |

\* Optional equipment, available only in specific versions of the device or as customer's request



Detailed device specification is available in the "Technical data".

The heart of the BiBox 15-I58 is the Intel Core i5-8250U processor, which is both high-performance and energy-saving. Processing multiple tasks simultaneously is facilitated by four processor cores working together. Given the current load, the shared cache hierarchy (with multiple levels) dynamically allocates resources to each core. Hyper-Threading technology allows one core to support two threads, increasing overall performance. This shortens memory access. Integrated Intel UHD Graphics in the processor allows you to display images in 1080p, up to 4K resolution on various interfaces such as HDMI or DisplayPort.

## DISPLAY AND TOUCH



Capacitive screen



The device uses capacitive screen technology, which does not require physical pressure on the screen surface. Instead, it detects a change in the electrostatic field caused by a touch of a finger. Thanks to this solution, panel operation becomes very precise and smooth, allowing you to respond to even the softest finger swings. This technology allows interaction with devices in a natural and intuitive way, increasing user comfort even in difficult industrial conditions where precision and durability are extremely important.

1000-nit screen

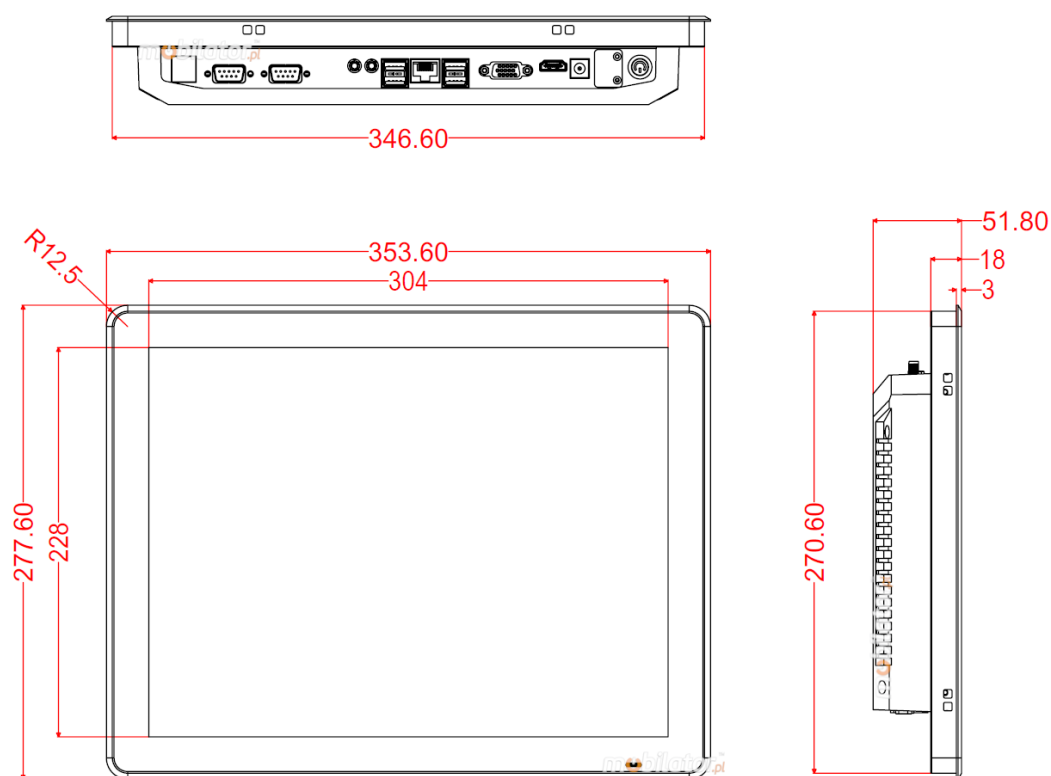


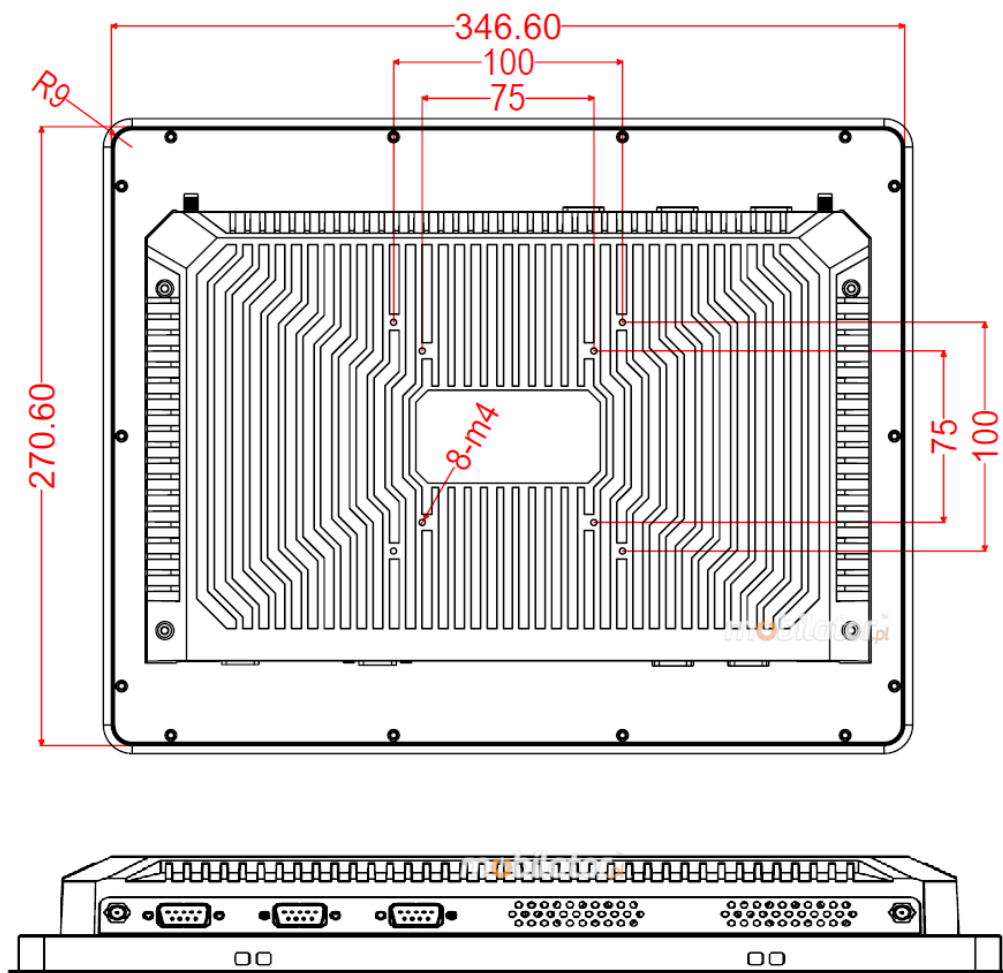
The BiBox 15-I58 panel is equipped with a screen with a brightness of 1000 nits, which ensures high readability both in low light conditions and in outdoor environments. The design of the display allows for effective operation. As a result, the user uses the device with comfort and without losing the readability of the displayed information.

## HOUSING

### Dimensions

The compact, flat BiBox 15-I58 PC panel housing was created to perfectly match control cabinets and small spaces in the industry. Its dimensions are 353.6 mm wide, 277.6 mm high and 51.8 mm deep.





#### Dimensions

353.6 x 277.6 x 51.8 mm

Narrow Bezel Style



The Narrow Bezel Style presented in the BiBox 15-I58 panel construction is a clearly narrow metal frame surrounding the screen. This housing gives the panel a professional look, emphasizing modern design and solidity while maintaining a light structure. It perfectly protects the screen against mechanical damage and efficiently dissipates heat, which has a positive effect on the life of components. This style is often used in PC panels for industrial applications and modern commercial interiors, emphasizing the prestige of the device and ensuring excellent working conditions even in the multi-screen configurations.

Aluminum Bezel Style (optional)

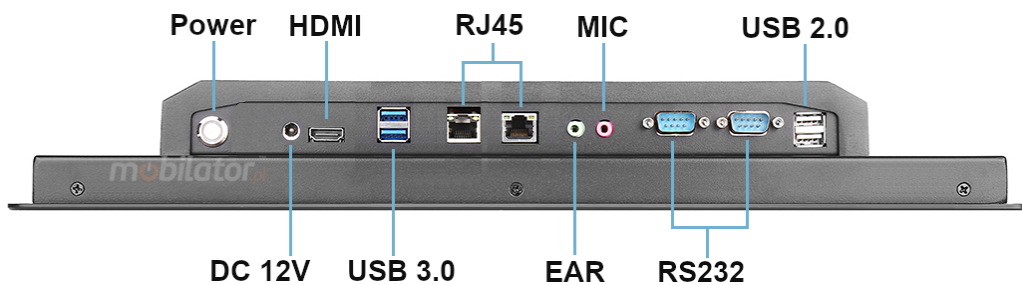


The Aluminum Bezel Style visible in the photo is distinguished by minimalist narrow, slim, precisely made frame surrounding the screen, manufactured of durable aluminum. This housing guarantees the highest level of durability, resistance to mechanical damage and not only high stiffness, but also ensures effective heat resistance, which is crucial for the durability and stability of the device. This solution not only offers a large display area, combining elegance with modern design, but also ensures durability and scratch resistance.

\* At the customer's request, it is possible to order the BiBox 15-i510 device in the Aluminium Bezel Style version. To select this finishing material, use the configurator located at the top of this page.

## CONNECTORS AND COMMUNICATION

## Connectors and ports



This device is equipped with four USB ports, two LAN ports, one HDMI input. In addition, the panel has audio connectors, including one MIC input and an EAR headphone input. We have two RS232 ports for industrial communication.

## Communication

The device is equipped with two universal Mini-PCIe expansion socket, which enables the integration of additional functional modules. A WiFi card for wireless network access, a 3G/4G module for cellular connectivity, or an mSATA disk for storage expansion can be installed in this port. With this option, it is possible to individually adapt the equipment to specific user requirements and specific industrial applications.

## RESISTANCE AND PROTECTION



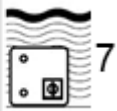
Full leakproofness of the front of the panel ensures that no dust enters the device, which is confirmed by the degree of protection specified as IP65 standard. The equipment is protected from dust, so it can operate without interruption even in dusty environments. Additionally, the panel is resistant to water in the form of splashing streams, without causing any adverse effects. Water directed to the front of the built-up panel will not disturb the proper functioning of the equipment, which allows it to be used in difficult environmental conditions.

Firts digit

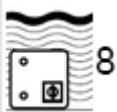
Protection level

Second digit

|                                                                           |                                                                                         |                                                              |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------|
| No special protection                                                     | 0  0   | No special protection                                        |
| Protection from solid objects greater than 50mm in diameter               | 1  1   | Protection from dripping water                               |
| Protection from object not greater than 12mm in diameter                  | 2  2   | Protection from vertically dripping water (tilted up to 15°) |
| Protection from object not greater than 2,5mm in diameter                 | 3  3   | Protection from sprayed water (tilted up to 60°)             |
| Protection from object not greater than 1mm in diameter                   | 4  4 | Protection from splashed water                               |
| Complete protection against contact, Protection against dust deposit      | 5  5 | Protection from water projected from a nozzle                |
| Complete protection against contact, protection from infiltration of dust | 6  6 | Protection against heavy seas, or powerful jets of water     |



Protection against immersion



Protection against complete, continuous submersion in water

Extreme temperatures

**Operation temperature ~ -15°C – 70°C**

**Storage temperature ~ -20°C – 80°C**



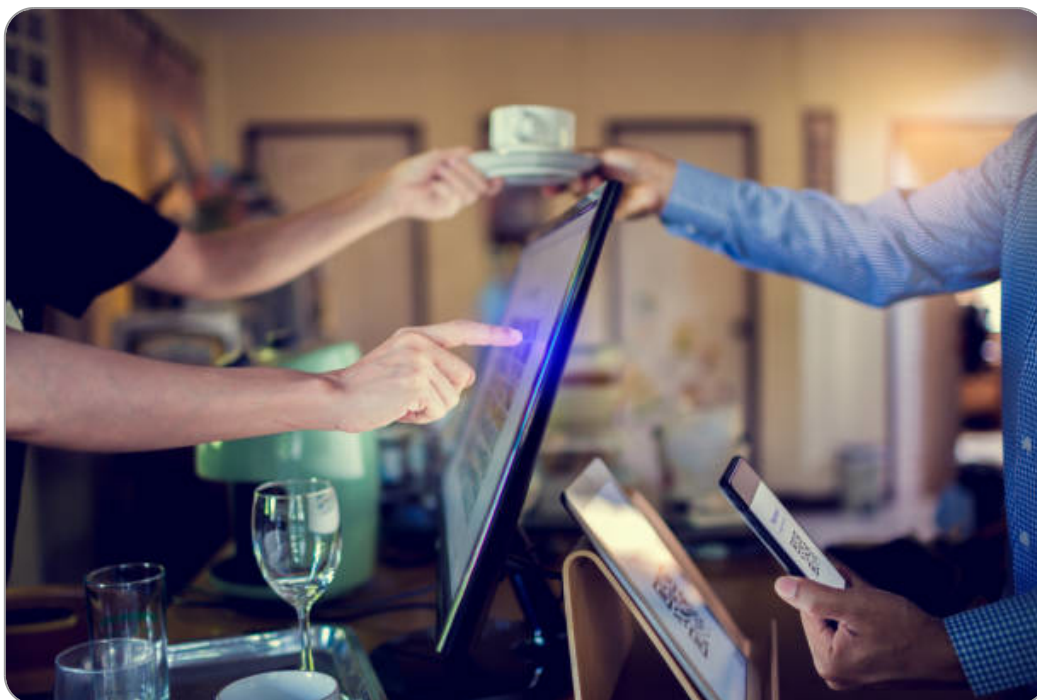
The BiBox 15-I58 device has been designed to operate in demanding environmental conditions. It is characterized by the ability to operate in a wide temperature range from -15°C to 70°C and high resistance to relative humidity up to 95%, in the absence of condensation. Additionally, the equipment can be safely stored at extreme temperatures, from -20°C to 80°C, ensuring reliability in various operating conditions.

|                        |               |
|------------------------|---------------|
| <b>Operation temp.</b> | -15°C do 70°C |
| <b>Storage temp.</b>   | -20°C do 80°C |
| <b>Humidity</b>        | 5% to 95%     |

## APPLICATION

### Trade and services

The PC 15-I58 panel is widely used in the commercial sector, where it serves as a central sales control system, displaying product information and presenting advertisements on monitors. The device is compliant with the VESA mounting standard, which allows for easy installation in various places, such as cash register stations, production halls and the interiors of delivery vehicles. Thanks to these features, the BiBox 15-I58 panel is a universal and versatile platform, adapted to the requirements of modern commercial network.



## Industry and Construction

Panel computers for specialized purposes are characterized by high durability and reliability, thanks to which they can be used in environments with strict operating conditions. Their design has been carefully designed to provide full protection against dust and resistance to water in the form of strong streams, which is confirmed by the IP65 certificate. This type of equipment, works perfectly in sectors such as construction, logistics and production lines, where conventional devices often fail quickly. Such durability guarantees stable and failure-free operation even in extreme conditions.



### Warehouse and management

An industrial-grade panel computer equipped with RS232 interfaces enables effective management and central control of warehouse equipment, which increases the efficiency of operations. The solid housing design is designed to operate in demanding industrial conditions. Thanks to its resistance to dust and pollution, the device guarantees stable and reliable operation even in environments with a high level of dirt.



## ACCESSOIRES AND AVAILABLE VERSIONS

The BiBox 15-I58 industrial panel computer is available in various variants that can be adapted to individual user requirements. The number of the selected hardware configuration is directed to a detailed description of the technical parameters contained in the table below. Additionally, there is an option to prepare a non-standard configuration not included in the current offer, at the customer's special request.



More pictures of the device available in the ["Gallery"](#) tab.

|                 | v.1 | v.2 | v.3 | v.4 | v.5 | v.6 | v.7 | v.8 |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Bluetooth       | —   |     |     |     |     | —   |     |     |
| WiFi (standard) | —   |     |     |     |     | —   |     |     |
| Windows 11 Pro  | —   |     | —   | —   |     |     |     |     |
| 1000 nits       | —   | —   | —   |     | —   |     | —   |     |
| WiFi 6          | —   | —   | —   | —   | —   |     | —   | —   |
| 4G              | —   | —   | —   | —   | —   |     | —   | —   |