

669.00 EUR  
incl. 19% VAT, plus [shipping](#)

- Intel Elkhart Lake SoC !
- HBFDF20 !



- Intel® Elkhart Lake SoC Processor (Default: J6412)
- Support 1\* DDR4 3200MHz SO-DIMM up to 32GB
- Support 8\* USB, 2\* RJ45, 4\* COM, 2\* HDMI
- All-aluminum body, produced by casting process
- Support DC12~24V input)

|             |                                                                                                                                                                                                                                                                                                                                             |  |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Model       | <ul style="list-style-type: none"> <li>– HBFDF20-6412-B (Default) / HBFDF20I-6412-B (Default, WiFi)</li> <li>– HBFDF20-6412-T (TPM) / HBFDF20I-6412-T (TPM, WiFi)</li> <li>– HBFDF20-6412-E (32GB EMMC) / HBFDF20I-6412-E (32GB EMMC, WiFi)</li> <li>– HBFDF20-6412-Q (32GB EMMC, TPM) / HBFDF20I-6412-Q (32GB EMMC, TPM , WiFi)</li> </ul> |  |
| Model       | <ul style="list-style-type: none"> <li>– MF20-00B (J6412 CPU_10W, Default)</li> <li>– MF20-02B (J6412 CPU_10W, TPM2.0)</li> <li>– MF20-03B (J6412 CPU_10W, EMMC)</li> <li>– MF20-07B (J6412 CPU_10W, 32GB EMMC, TPM2.0)</li> </ul>                                                                                                          |  |
| CPU/Chipset | – Intel® Elkhart Lake SoC Processor (Default: J6412, TDP 10W)                                                                                                                                                                                                                                                                               |  |
| BIOS        | – AMI Flash ROM                                                                                                                                                                                                                                                                                                                             |  |
| Memory      | – 1* DDR4 3200MHz SO-DIMM up to 32GB                                                                                                                                                                                                                                                                                                        |  |
| Network     | – 2* Intel® i225LM 2.5GbE                                                                                                                                                                                                                                                                                                                   |  |
| Graphics    | <ul style="list-style-type: none"> <li>– Intel® HD Graphics, shared memory</li> <li>– 2* HDMI (Max Resolution: 4096×2160@60Hz)</li> </ul>                                                                                                                                                                                                   |  |
| Storage     | <ul style="list-style-type: none"> <li>– 1* M.2 M-key (2242/2280, PCIe Gen.3 x2/SATA interface) support NVME</li> <li>– 1* 2.5" SATAIII 6Gb/s internal drive bay (Max. Height 9.5 mm)</li> <li>– 32GB eMMC onboard (option)</li> </ul>                                                                                                      |  |
| Expansion   | <ul style="list-style-type: none"> <li>– 1* M.2 E-key (2230, PCIe Gen.3 x1/USB2.0 interface)</li> <li>– 1* M.2 B-key (3042, USB3.1 /USB2.0 interface W/SIM card slot )</li> <li>– TPM onboard (option)</li> </ul>                                                                                                                           |  |

|                    |                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rear Panel I/O     | <ul style="list-style-type: none"> <li>– 3* USB3.1 (Gen2)</li> <li>– 3* USB2.0</li> <li>– 2* HDMI</li> <li>– 2* RJ45</li> <li>– Line-out/MIC combo jack</li> <li>– 1* DC in</li> </ul>                                                                                                                                                                      |
| Front Panel I/O    | <ul style="list-style-type: none"> <li>– 1* Power SW, 1* Reset</li> <li>– 1* Power LED, 1* HDD LED</li> <li>– 1* MIC</li> <li>– 1* Line-out</li> <li>– 4* COM (COM1 support RS485)</li> <li>– 2* USB2.0</li> </ul>                                                                                                                                          |
| Internal Connector | <ul style="list-style-type: none"> <li>– SIM Card Holder</li> </ul>                                                                                                                                                                                                                                                                                         |
| Power Source       | <ul style="list-style-type: none"> <li>– Adapter : AC 90~240V input / DC12V_60W output</li> <li>– MB : DC12~24V input</li> </ul>                                                                                                                                                                                                                            |
| Compliance         | <ul style="list-style-type: none"> <li>– CE, FCC, LVD, RoHS, ErP Ready</li> </ul>                                                                                                                                                                                                                                                                           |
| Dimensions         | <ul style="list-style-type: none"> <li>– System: 193 (W) x 142.4 (D) x 62 (H) mm</li> <li>– Color Box dimension: 250 (W) * 118 (D) * 295 (H) mm</li> <li>– Net Weight: 2.2KG</li> <li>– Gross Weight: 3.5KG</li> </ul>                                                                                                                                      |
| Temperature        | <ul style="list-style-type: none"> <li>– Operating Temperature: -20 ~ 60° C</li> <li>– (Under the condition of using M.2 interface SSD)</li> <li>– Operating Temperature: 0 ~ 50° C</li> <li>– (Under the condition of using 2.5" SATA HDD)</li> <li>– Storage Temperature: -20 ~ 85° C</li> <li>– Humidity: 10% ~ 90% RH @40°C (non-condensing)</li> </ul> |
| OS Support         | <ul style="list-style-type: none"> <li>– Windows 11, Linux</li> </ul>                                                                                                                                                                                                                                                                                       |