



HBFMF833(W) Series

Intel® Skylake/Kabylake U Processor, M12 connector, IP69K Waterproof



1. Intel® Skylake/Kabylake U Processor on board
2. Support 2* SO-DIMM DDR4-2133, up to 32GB memory
3. Wide temperature design, suitable for use at -20 ~ 70 °C
4. All-aluminum main body; Stainless base
5. Support IP69K waterproof and dustproof level
6. Flexible I/O for customized and mission-critical projects
7. Stainless steel bottom cover with stainless steel screws for outdoor use without rust.



External I/O

Front



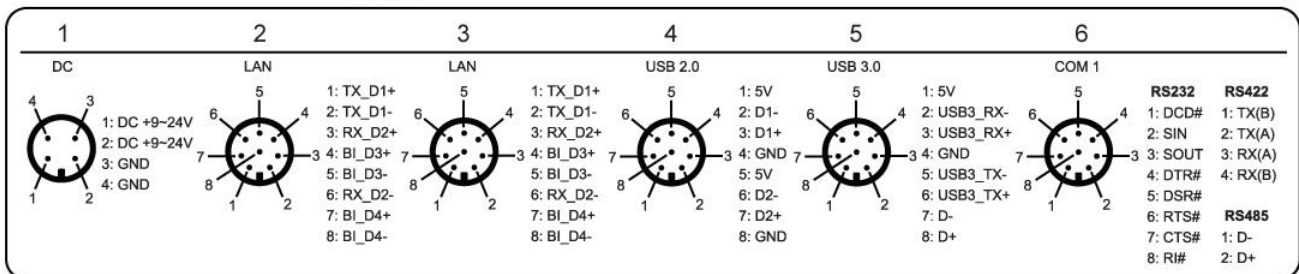
Power Switch
Power LED

Rear



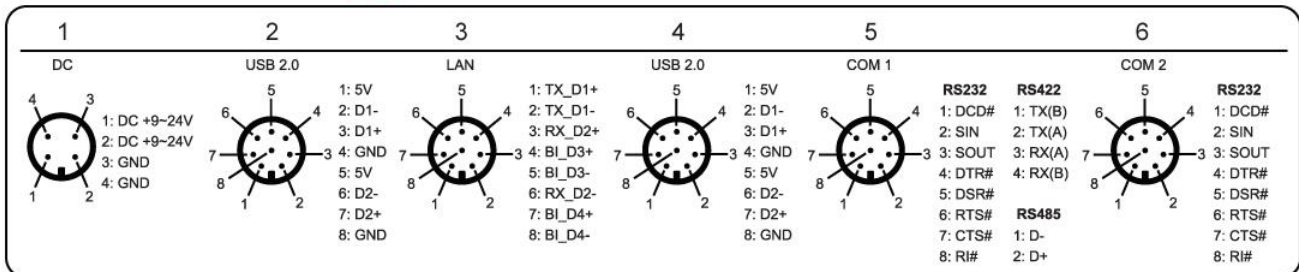
	MODEL	
M12 NUM	HBFMF833W-7X-2C-B	HBFMF833W-7X-2L-B
1	DC-IN	DC-IN
2	USB 2.0	LAN1
3	LAN	LAN2
4	USB2.0	USB2.0
5	COM1	USB3.0
6	COM2	COM1

HBFM833W-7X-2L-B



X-LABEL741-F

HBFM833W-7X-2C-B



X-LABEL740-F

Part Number Rule

HBFMF833W-7X-2X-B

Barobone model

MB model : F833 => NF833

W : WIFI

CPU Model

Case color : B => BLACK

IO Model : 2C / 2L

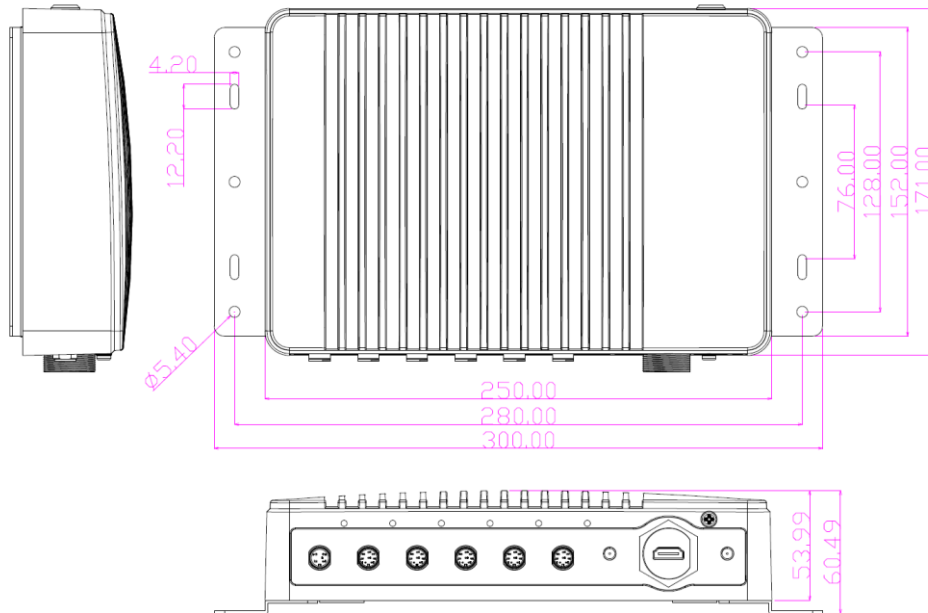
Specifications

MB Model	● JNF833 Series / 3.5" SBC	
Part No	● HBFMF833-71-2L-B (non-WIFI) / HBFMF833W-71-2L-B (WIFI) ● HBFMF833-72-2L-B (non-WIFI) / HBFMF833W-72-2L-B (WIFI) ● HBFMF833-71-2C-B (non-WIFI) / HBFMF833W-71-2C-B (WIFI) ● HBFMF833-72-2C-B (non-WIFI) / HBFMF833W-72-2C-B (WIFI)	
BIOS	● AMI	
CPU/Chipset	● Intel® Skylake/Kabylake U Processor (TDP 15W) Notes: When the system runs, CPU will automatically adjust its working clock frequency according to changing workload.	
Memory	● 2 * SO-DIMM slots DDR4-2133MHz up to 32GB	
Storage	● 1 * 2.5" SATA3 6Gb/s internal drive bay (only support 2.5" HDD with a height ≤ 10mm) ● 1 * Full-size mSATA/mini-PCI Express shared slot	
Network	● 1 * Intel GbE (HBFMF83(W)-7X-2C-B) ● 2 * Intel GbE (HBFMF833(W)-7X-2L-B) ● 1 * Half-size mini-PCIE slot (802.11 b/g/n + BT 4.0 installed in WIFI model)	
Rear Panel I/O	HBFMF833(W)-7X-2C-B	HBFMF833(W)-7X-2L-B
	● 2 * USB2.0 ● 1 * RJ45 ● 2 * COM ● 1 * HDMI ● 2 * WIFI Antenna ● 1 * DC-In	● 1 * USB3.0 ● 1 * USB2.0 ● 2 * RJ45 ● 1 * COM ● 1 * HDMI ● 2 * WIFI Antenna ● 1 * DC-In
Front Panel I/O	● 1 * Power SW ● 1 * Power LED	
Power Source	● NF833 MB support DC9~24V input ● FSP Adapter , AC 90~240V input , DC12V-5A-60W	
Compliance	● CE, FCC, LVD, RoHS, ErP Ready	
Waterproof	● IP69K	
Safety	● ESD	
Environment	● Operating Temperature: -20 ~ 70 °C (Under the condition of using mSATA or SSD) ● Operating Temperature: 0 ~ 50 °C (Under the condition of using 2.5" SATA HDD) (The test environment is closed and windless) ● Storage Temperature: -10 ~ 70 °C ● Humidity : 90% , non-condensing	
Dimensions	● 250 (W) x 171 (D) x 54 (H) mm	
Packing	● Net Weight: 4.5KG ● Gross Weight: 5.5KG ● Color Box dimension: 560 (W) * 400 (D) * 380 (H) mm	
OS Support	● Skylake CPU support Win7, Win8, Win10.	

	KabyLake CPU only support Win10.
Warranty	2 Year limited warranty

*Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.

Mechanical Drawings (Unit = mm)



Optional Accessories

Parts Number	Description
-----	HBFMF833(W) Series
G03-NF833-F	IPC NF833 M/B User's Manual
G03-FMF833QIG-F	HBFMF833 QIG
G02-DVD25-A6-WF	Driver DVD-ROM
L01AS036-F	FSP Adapter 12V-5A-60W / LEVEL6
-----	Power cord
LCSCHBJC3XX-F	Screw Pack
J05-ANT-AN2400-F	Antenna2G4 -2dBi R-AN2400-5701RS (Option)
G01-PWM12-W401-F	M12 DC Cable , L=1.2M
Wires are purchased separately according to customer needs	
G01-M12W8-RJ4501-F	M12 LAN Cable , L=1.2M
G01-M12W8-USB201-F	M12 USB 20 Cable , L=1.2M
G01-M12W8-USB301-F	M12 USB 30 Cable , L=1.2M
G01-M12W8-COM01-F	M12 COM(RS232) Cable , L=1.2M
G01-M12-HDMI01-F	M12 HDMI Cable , L=1.2M