

HummingBoard Edge

Datasheet

NXP i.MX6™ based SBC



Embedded Edge Computing

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Overview

HummingBoard Edge is the ideal M2M platform, it was developed to meet the B2B market demand for a high performance, reliable and innovative device. The brand new HummingBoard Edge includes a whole new set of features such as eMMC (8GB), mPCIe (Half or Full Size) , wide range input (7V-36V) , optional metal enclosure and much more.

HummingBoard Edge Highlighted Features

- ✦ Based on NXP's iMX6 Single to Quad Core
- ✦ Arm Cortex A9 processor (up to 1Ghz)
- ✦ Up to 2GB DDR3
- ✦ Windows 10 IoT support
- ✦ Microsoft Azure Certified
- ✦ Optional IoT platform
- ✦ Feature rich



System Specifications

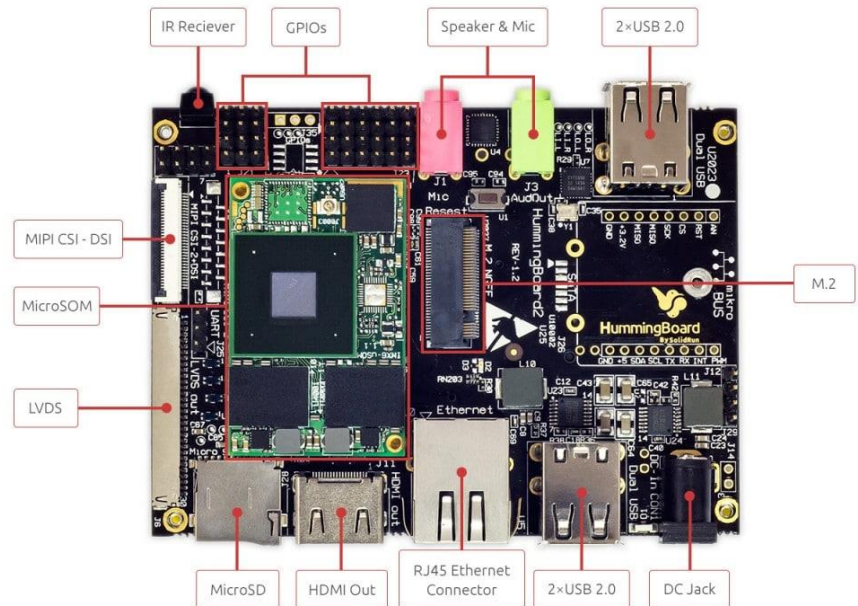
HummingBoard Edge		
SOM Model	SOM i.MX6 Solo to Quad Core	
Memory and Storage	Up to 2GB DDR3 MicroSD eMMC (8GB by default) M.2 (2242)*	
Connectivity	1 x RJ-45** 4 x Host USB 2.0 mPCIe with SIM card holder	
Media	HDMI out MIPI-CSI-2 and MIPI-DSI Parallel camera (on GPIO header) LVDS Analog Audio	
I/O	1 x Reset button 36 pins GPIO header RTC with battery IR	
Power	7V – 36V, 5.5mm in (twist & lock mechanism)	
Software	Linux, Windows 10 IoT, Azure	
Environment	Ambient temp. (commercial):	0°C to 70°C
	Enclosed ambient temp. (commercial):	0°C to 40°C
	CPU die temp. (commercial):	0°C to 105°C
	Ambient temp. (industrial):	-40°C to 85°C
	Enclosed Ambient temp. (industrial):	-25°C to 65°C
	CPU die temp. (industrial):	-40°C to 105°C
	Humidity (non-condensing): 10% - 90%	
Dimensions (WxL)	102mm x 69mm	
Enclosure	Optional metal enclosure	

(*) Supported with SOM i.MX6 Dual and above

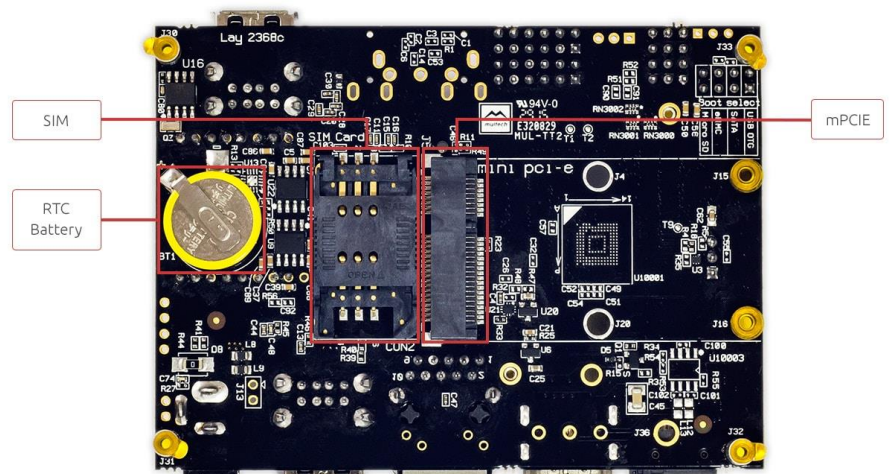
(**) Note that due to internal i.MX6 buses the 1000Mbps interface speed is limited to 470Mbps.

HummingBoard Edge Layout

Top View:



Bottom View:



Available SKUs for HummingBoard Edge

SKU	Description
SRMX6SOWT1D512E008E00CH	SOM iMX6 Solo HummingBoard Gate Inc. WiFi/BT 512MB DDR 8GB eMMC Com. Temp R00 Inc. Heatsink
SRMX6SOW00D512E008E00CH	SOM iMX6 Solo HummingBoard Gate No WiFi/BT 512MB DDR 8GB eMMC Com. Temp R00 Inc. Heatsink
SRMX6SOWT1D512E008E00CE	SOM iMX6 Solo HummingBoard Gate Inc. WiFi/BT 512MB DDR 8GB eMMC Com. Temp R00 Inc. Enclosure
SRMX6SOW00D512E008E00CE	SOM iMX6 Solo HummingBoard Gate No WiFi/BT 512MB DDR 8GB eMMC Com. Temp R00 Inc. Enclosure
SRMX6DLWT1D01GE008E00CH	SOM iMX6 Dual-lite HummingBoard Gate Inc. WiFi/BT 1GB DDR 8GB eMMC Com. Temp R00 Inc. Heatsink
SRMX6DLW00D01GE008E00CH	SOM iMX6 Dual-lite HummingBoard Gate No WiFi/BT 1GB DDR 8GB eMMC Com. Temp R00 Inc. Heatsink
SRMX6DLWT1D01GE008E00CE	SOM iMX6 Dual-lite HummingBoard Gate Inc. WiFi/BT 1GB DDR 8GB eMMC Com. Temp R00 Inc. Enclosure
SRMX6DLW00D01GE008E00CE	SOM iMX6 Dual-lite HummingBoard Gate No WiFi/BT 1GB DDR 8GB eMMC Com. Temp R00 Inc. Enclosure
SRMX6DUWT1D01GE008E00CH	SOM iMX6 Dual HummingBoard Gate Inc. WiFi/BT 1GB DDR 8GB eMMC Com. Temp R00 Inc. Heatsink
SRMX6DUW00D01GE008E00CH	SOM iMX6 Dual HummingBoard Gate No WiFi/BT 1GB DDR 8GB eMMC Com. Temp R00 Inc. Heatsink
SRMX6DUWT1D01GE008E00CE	SOM iMX6 Dual HummingBoard Gate Inc. WiFi/BT 1GB DDR 8GB eMMC Com. Temp R00 Inc. Enclosure
SRMX6DUW00D01GE008E00CE	SOM iMX6 Dual HummingBoard Gate No WiFi/BT 1GB DDR 8GB eMMC Com. Temp R00 Inc. Enclosure
SRMX6QDWT1D02GE008E00CH	SOM iMX6 Quad HummingBoard Gate Inc. WiFi/BT 2GB DDR 8GB eMMC Com. Temp R00 Inc. Heatsink
SRMX6QDW00D02GE008E00CH	SOM iMX6 Quad HummingBoard Gate No WiFi/BT 2GB DDR 8GB eMMC Com. Temp R00 Inc. Heatsink
SRMX6QDWT1D02GE008E00AE	SOM iMX6 Quad HummingBoard Gate Inc. WiFi/BT 2GB DDR 8GB eMMC Aut. Temp R00 Inc. Enclosure
SRMX6QDW00D02GE008E00CE	SOM iMX6 Quad HummingBoard Gate No WiFi/BT 2GB DDR 8GB eMMC Com. Temp R00 Inc. Enclosure

(*) Different configurations available for MOQ

Safety Notice

- This device is to be used with Certified Power adaptor with output rated 12VDC, 1.5A. Power adapter must meet Limited power source (LPS) requirements.
- Power adapter must meet local safety standards and requirements based on product intended use.
- Power adapter must meet Operating environment conditions as specified above.

Disposal

Follow local regulations regarding disposal of the product. Dispose of your product in accordance with local regulations. In some areas, the disposal of these items in household or business trash may be prohibited.

Help us protect the environment- recycle!

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Documentation

Additional documentation available at:

<https://developer.solid-run.com/products/hummingboard-gate-edge/>