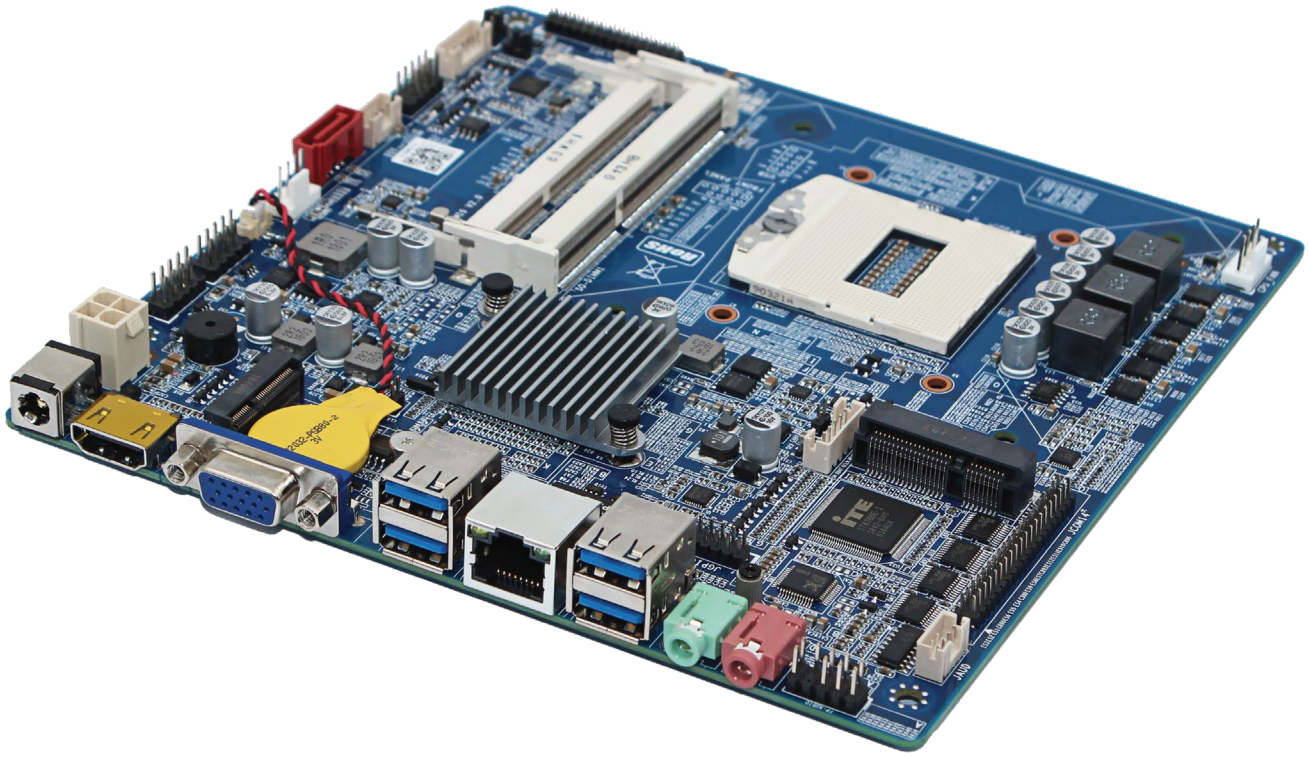
PRODUCT DATASHEET
HW Rev.: V2.3

HWM-10

Intel® Haswell (FCPGA946) based Mini ITX Motherboard with HM86 Chipset



Features

- CPU: Intel Haswell Celeron Pentium, Core Processors
- Memory: Dual Channel SO-DIMM DDR3L up to 32 GB
- Display: Multiple display via HDMI, VGA, LVDS/eDP
- Ethernet: 10/100/1000Mbps
- Storage: SATA3.0, mSATA
- Expansion: M.2 for WiFi
- Power: 12/19V DC input

intel prestige partner Builder

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MAXIMIZING YOUR COMPUTING PRODUCTIVITY

Introduction

The Maxtang mini-ITX HWM10 embedded motherboard is based on Intel Haswell processors with HM86 chipset, provides a complete PC platform with high performance. Dual-channel SO-DIMM DDR3L up to 32GB for its memory and SATA3.0, mSATA for its storage. Intel Integrated graphics (based on CPU), display via HDMI, VGA, and eDP/LVDS. Rich interfaces include 4xCOM, 1xLAN, 4xUSB3.2, and 4xUSB2.0 headers that cater to most market's requirements.

This industrial mini-ITX motherboard offers a lot of functionality right off the rear panel and its internal headers. It is composed of high-quality components intended for a long-life operation that is perfect for industrial environments. It retains a robust design just like all other Maxtang products with stability, reliability, and cost advantages.

Linux

ubuntu Linux

Windows

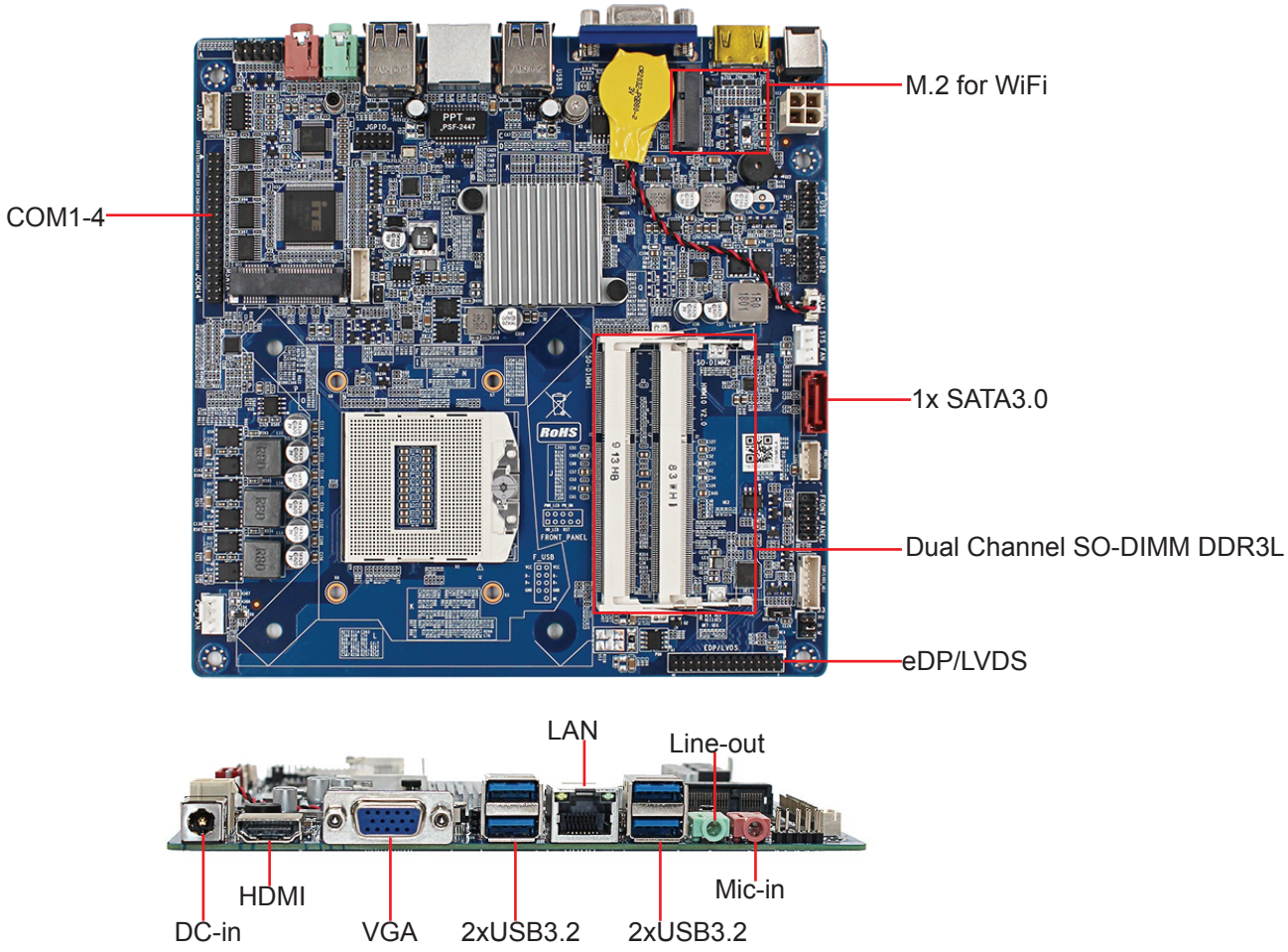
H/W Monitor

Watchdog

GPIO

Brightness

I/O Interfaces

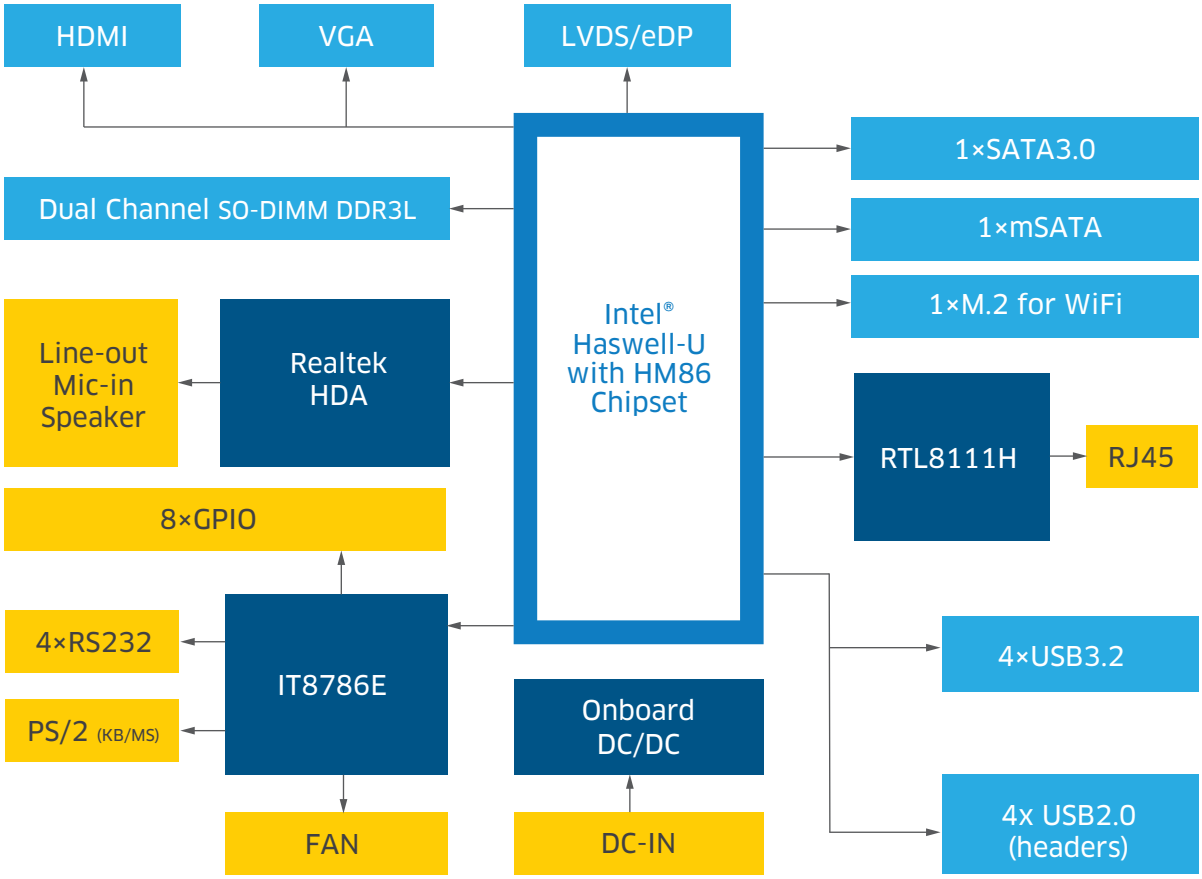


Technical Specifications

Processor	CPU	Intel Haswell Celeron Pentium, Core Processor (FCPGA946)
	Chipset	HM86
	BIOS	AMI UEFI BIOS
Memory	Type	Dual Channel SO-DIMM DDR3L
	Max. Capacity	32GB
Display	GPU	Intel Integrated Graphics based on CPU
	Type	1x VGA + 1x HDMI + 1x LVDS/ eDP
Ethernet	Speed	10/100/1000 Mbps
	Controller	Realtek RTL8111H
	Interface	1xRJ45
	Wake on LAN	Yes
Audio	Audio Codec	Realtek HD
	Interface	Line-out, Mic-in, audio header, SPDIF header, amplifier header
Hardware		CPU system temperature, on-board voltage, watchdog
Storage	SATA3.0	1
	mSATA	1
Expansion	M.2	1x M.2 for Wi-Fi
I/O Interface	LAN	1
	COM	4*RS232
	USB3.2	4
	USB2.0	4*header
	Audio	1x Line-out, 1x Mic-in
	GPIO	8
	PS/2	1
Dimension	Size	170mm x 170mm
	Board Type	Mini ITX
Power	Standard Port	12V DC-in/4-pin power
	Peripheral Input	For Fan and SATA
Temperature	Operating Temp.	-20°C to 60°C
	Storage Temp.	-40°C to 80°C
Operating System		Win7/8/8.1/10 32/64bit, Linux 32/64bit

* All specifications and photos are subject to change without notice.

Functional Block Diagram



Order Information

Model Name	Description
DTHM86-A	DT ITX Intel HM86 HWM10 1LAN 4*RS232 HDMI+VGA+LVDS
DTHM86-C	DT ITX Intel HM86 HWM10 1LAN HDMI+VGA+LVDS

*For customized options, please consult regional sales. And please confirm the model name and description before purchasing. *The model name and description might vary due to inventory changes.

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