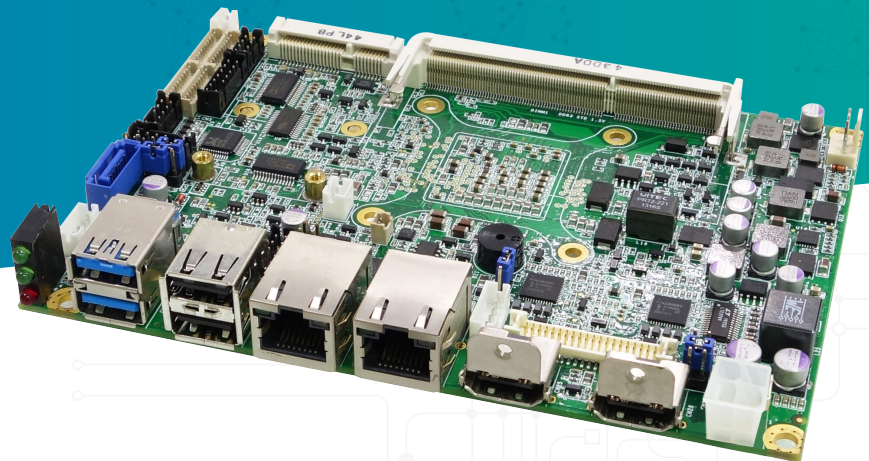


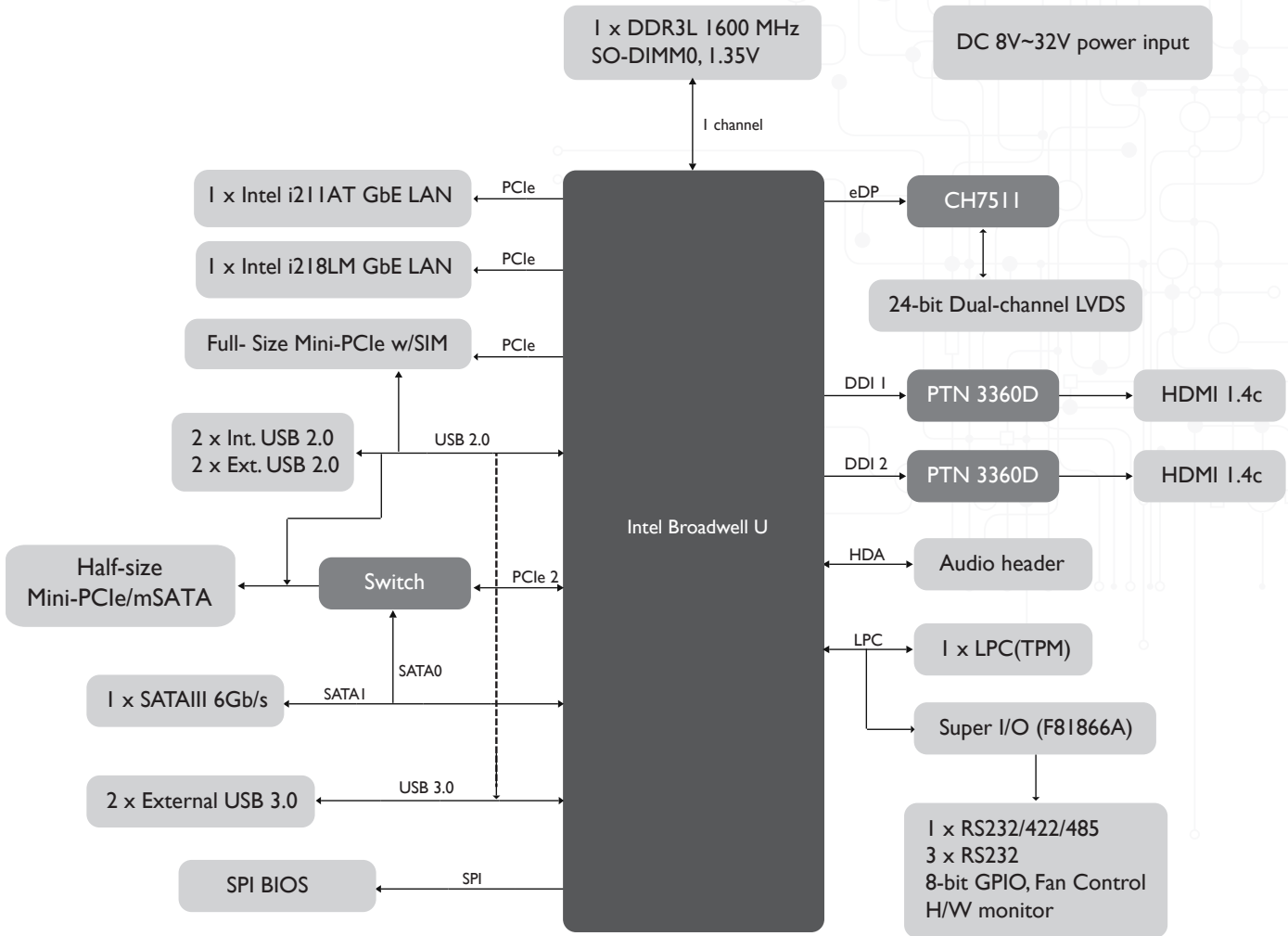
Intel® 5th Gen. Broadwell® Core™ i7-5650U/ i5-5350U processors 3.5" SBC



Extended
Temperature
+70°C
-20°C

- Support Intel® Broadwell Core™ i7-5650U/i5-5350U Processor
- 1 x SO-DIMM up to DDR3L 16GB
- Expansion slots: 2 x mPCIe
- Multi display: HDMI x 2, LVDS x 1
- 8V-32V wide range DC input
- 4 x COM ports: 3 x RS-232, 1 x RS232/422/485
- 6 x USB ports: 2 x USB 3.0, 4 x USB 2.0
- Operating temp. -20~+70°C

Blockdiagram

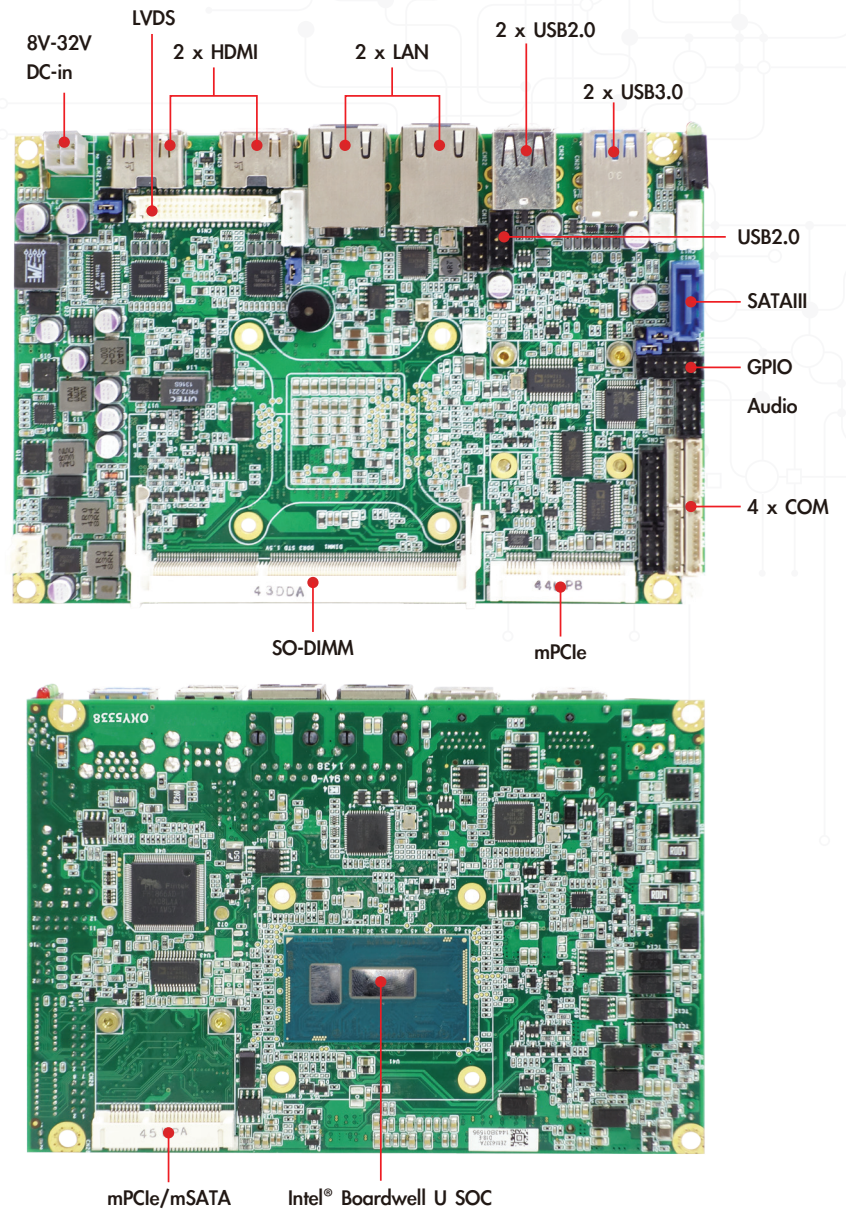


OXY5338A

Introduction

OXY5338A, a powerful 3.5" SBC, is driven by Intel® Broadwell processor i5-5350U / i7-5650U soldering onboard. Both processors support outstanding graphics (HD Graphics 6000) and CPU performance, providing dual cores 2.2~3.2 GHz (i7-5650U) / 1.8~2.9GHz (i5-5350U) clock speed while consuming low power consumption. Compared to the Core i7-5600U, the i7-5650U features a lower CPU base clock, but with a faster GPU integrated. The powerful combination makes the compact SBC ideal for multi-tasking.

OXY5338A is regarded as a rich-featured board that can be applied to cater various I/O requirements. OXY5338A support multi display: 2 x HDMI and 1 x LVDS; rich I/O: 6 x USB, 4 x COM, and 2 x mPCIe expansion slots. On board CPU provide more resistance to shock and vibration, which make OXY5338A an ideal SBC for heavy industrial and high-end automation. Wide voltage power input design (8V~32V) can protect system from damages caused by sudden surge of voltage, thus further secure the reliability of its critical components and the system itself.



OXY5338A

System	
CPU	Intel® Core™ i5-5350U Processor (3M Cache, up to 2.90 GHz)
	Intel® Core™ i7-5650U Processor (4M Cache, up to 3.20 GHz)
Memory Type	1 x SO-DIMM up to 16 GB
BIOS	AMI SPI BIOS
Watchdog	255 levels, 1~255 sec
Expansion Slot	1 x mPCIe, 1 x half-size mPCIe/mSATA
Display	
Chipset	Intel integrated
Display Type	2 x HDMI, 1 x LVDS
Ethernet	
Chipset	1 x Intel i211-AT & 1 x i218-LM
Power Requirements	
Power Type	8V-32V DC-in 4-pin internal header
Rear I/O	
USB 3.0	2
USB 2.0	2
LAN	2
HDMI	2
Internal I/O	
SATA	1 x SATA III -600
COM	1 x RS232/422/485 (COM2)
	3 x RS232

Serial Signals	RS232: DCD-, RXD, TXD, DTR-, GND, DSR-, RTS-, CTS
	RS422: TX-, RX+, TX+, RX-, GND
	RS485: DATA-, DATA+, GND
USB 2.0	2
Audio	line-in/out, Mic-in
DIO	8-bit GPIO interface
LPC	1 x LPC header for optional TPM module
LVDS	1
Power Connector	1
Mechanical and Environment	
Form Factor	3.5" SBC
Power Type	8V-32V DC-in
Dimension	146 mm x 101 mm
Operating Temp.	-20 to 70°C
Storage Temp.	-20 to 80°C
Relative Humidity	10% to 90%, non-condensing

Ordering information

OXY5338A-01

Intel® 5th Gen. Broadwell® Core™ i7-5650U processor, 2 x HDMI, 1 x LVDS, 6 x USB, 4 x COM, 8V-32V DC input, Operating Temperature -20 to 70°C

OXY5338A-02

Intel® 5th Gen. Broadwell® Core™ i5-5350U processor, 2 x HDMI, 1 x LVDS, 6 x USB, 4 x COM, 8V-32V DC input, Operating Temperature -20 to 70°C