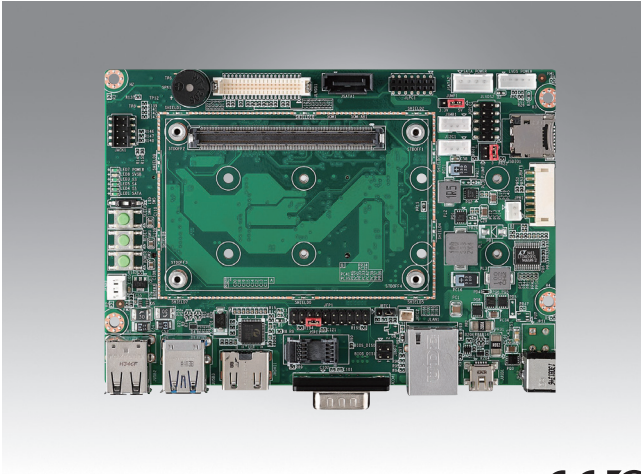


# SOM-AB5510

## COM Express 3.5" Application Board



### Features

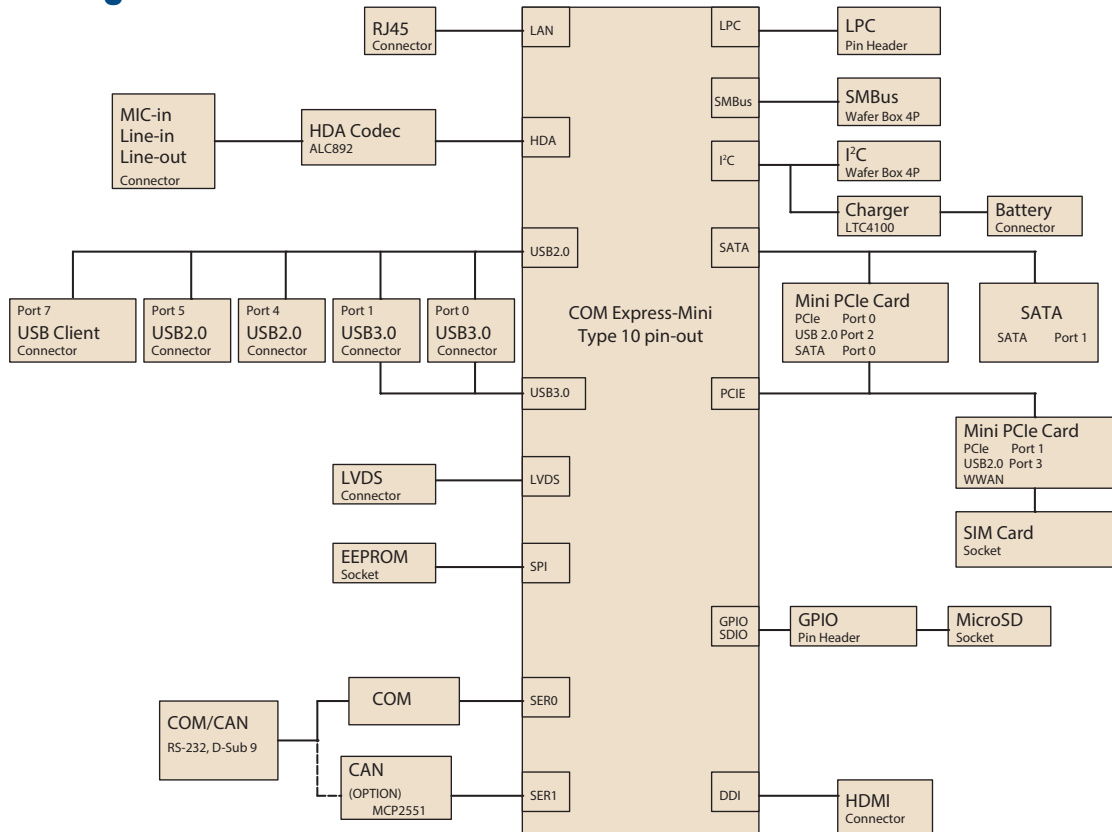
- 3.5" application board for COM-Express Mini module
- Compatible with PICMG COM R2.1, Type-10 pin-out module.
- 8.5–20V wide voltage input support
- Smart battery charger design, compatible with SBS 1.1
- Mini PCIe, mSATA, USB3.0, USB Client, and CAN Bus supported

### Specifications

Support Models	Form Factor	COM Express Mini (84 x 55mm) Module
	Pin-out Type	Type 10 pin-out Compatible
Rear I/O	HDMI	1
	Ethernet	1 (10/100/1000MHz)
	USB 3.0	2 (Compatible with USB2.0)
	USB 2.0	2
	USB Client	1
	Audio	Mic-in, Line-in, Line-out
	COM Port (2 wire)	TX,RX (Optional for CAN Bus)
Internal Connectors	LVDS	1-CH 18/24-bit LVDS (optional 4-Lane eDP)
	Mini PCIe	2
	mSATA	1
	SATA	1
	MicroSD Socket	1
	LPC	1
	SMBUS	1
	I <sup>2</sup> C	1
	Smart Fan	1
	Battery	1
	Audio	Mic-in, Line-in, Line-out
	SIM Card Socket	1
Power Button Connector	1	
Power	Input Power Type	DC: 8.5–20V ATX: 12V
	Power Mode	AT/ATX
Charger	Charger IC	LTC4100, Compliant with Smart Battery System (SBS) v1.1
	Support battery type	Li-ion/Li-PR (3.5-4.2V per cell); 3-cell (12.6V) or 4-cell (16.8V) LiFePO4 (2.7-3.6V per cell); 3-cell (10.8V) or 4-cell (14.4V)
	Charge conditions	V <sub>in</sub> > 15V AND V <sub>in</sub> > (V <sub>bat,max</sub> + 2V)
Environment	Temperature	Operating: 0 ~ 60° C (32 ~ 140° F) Storage: -40 ~ 85° C (-40 ~ 185° F)
	Humidity	Operating: 40° C @ 95% relative humidity, non-condensing, Storage: 60° C @ 95%relative humidity, non-condensing
Mechanical	Dimensions	146 x 102 mm (5.75" x 4.02")

Note#1: SOM-AB5510 is carrier board. Function will depend on COM-Express Mini module.

## Block Diagram



## Ordering Information

Part No.	Description
SOM-AB5510-D0A1E	3.5" Application Board for COM-Express Mini module - DC Power in
SOM-AB5510-A0A1E	3.5" Application Board for COM-Express Mini module - ATX Power in

## Optional Accessories

Part No.	Description
96LEDK-A104SV40NC1	10.4" LED PANEL 400N 800X600(G)
96LEDK-A084SV45NB2	8.4" LED PANEL 450N 800X600(G)

## Packing List

Part No.	Description	Quantity
-	3.5" Application Board for COM-Express Mini modules	1
1700008894	SATA Cable	1
1700018785	SATA Power Cable	1
1703100152	Audio Cable	1

## I/O View



SOM-AB5510-D0A1E

SOM-AB5510-A0A1E