

SOM-AB5810

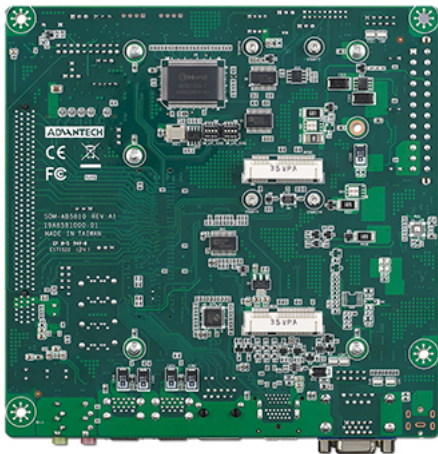
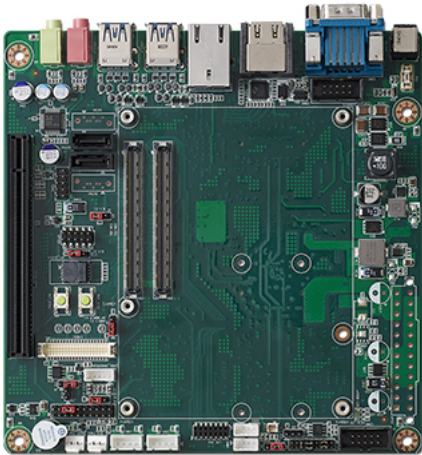


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IO side DC board

Mini-ITX form factor with slim type I/O connector under 25.4mm

Compatible to COM Express Basic/Compact with Type 6 pin-out module

Available Wide-range operating temperature from -40 to +85 degree

Standard ATX Power or DC-in 19V

1x VGA

2xHDMI

PCIe x16(or PCIe x1)

mini-PCIe

4xSATA(or 2x),

4x USB 3.0 & 2x USB 2.0

SOM-AB5810 is the newest Mini-ITX application board. Featuring pin-to-pin compatibility with COM Express® Basic and Compact type 6 pin-out CPU modules compatible CPU models include SOM-5892 with 3rd Gen. Intel® Core™, SOM-5894, SOM-6894 with 4th Gen. Intel® Core™ and newer SOM modules. SOM-AB5810 supports both normal and wide-range temperature demands, as well as a choice of ATX power supply or DC-in 19V adapter. SOM-AB5810 is ideal for harsh environments and perfect for outdoor surveillance, industrial automation, digital signage, kiosk applications and much more.

SOM-AB5810 is designed for two different types of power selection ATX power supply and DC-in 19V via an adapter. An optional ATX power supply can deliver under 47W to the CPU module board (Note: ATX power supply should be more than 200W). For the DC-in 19V adapter power design, it can deliver under 17W to the CPU module. For the I/O interface, SOM-AB5810 supports standard and low profile design types. The standard I/O interface fits with a standard Mini-ITX I/O shielding and standard Mini-ITX chassis without alterations. The low profile I/O interface can meet both standard I/O shielding or customized interface within a low profile chassis design.

Specifications

SOM Type:
COM Express Carrier Boards

Processor
Real Time Clock:

Primary I/O
GPIO.
18x GPIO

Disk Interface:
4x SATA & 1x mSATA

Video Out:
VGA
LVDS & 2x HDMI

SPI:
yes
Audio:
Line-out(L/R)
MIC (Realtek ALC892)

Ethernet:
1x RJ-45 support for 10/100/1000 network speeds
USB:
4x USB 3.0/2.0
2x USB 2.0

Serial Ports:
2x COM (COM1 RS232
COM2 RS-232/422/485)

I2C:
yes
Watchdog:

Secondary I/O
LPT & FDC.

Keypad:
PS/2:

Expansion
Bus Interface.

Supports: COM Express Type 6 Basic (125 x 95 mm) or Compact (95 x 95 mm) Modules

Analog
A/D.
D/A:

Dimensions

Dimensions:	
6.7 × 6.7 × 1 in	
Form Factor:	
Mini-ITX	
Dimensions Misc.:	
1" (25.4mm) height is depending on SOM and cooling solution selected.	
Power Requirements	
Power Misc.:	
ATX SKU: ATX	
DC-in SKU: DC-in 19V	
Environmental	
Low Operating Temperature:	
0 C	
High Operating Temperature:	
60 C	
Upper Operating Humidity:	
95%	
Pricing	
SOM-AB5810DC	
SOM-AB5810DC-00A1E, Mini-ATX Application Carrier board, 19V DC power, 2x SATA, 2x COM, 2x Mini-PCIe, 4x USB3/2, 2x USB2, 1x GbE, 1x VGA, 1x LVDS, 2x HDMI	
\$299.00	
Order:	
0	
Parent Product:	
SOM-AB5810	
Base Product:	
SOM-AB5810	
SOM-AB5810AC	
SOM-AB5810AC-00A1E, Mini-ATX Application Carrier board, ATX power, 4x SATA, 2x COM, 2x Mini-PCIe, 4x USB3/2, 2x USB2, 1x GbE, 1x VGA, 1x LVDS, 2x HDMI	
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