

Maximizing Performance with Intel Atom™ Bay Trail Single / Quad Core E3815/3845



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LEX launches 31380A/C series SBC with the newest 22nm process Intel® Atom™ processor E3800 family (formerly codenamed Bay Trail) to give users fast, convenient and simplified solutions for industrial and embedded applications.

This series of platforms, rugged features and powerful computing technology deliver reliability and flexibility. LEX provides these systems to satisfy customers looking for a robust and compact computing system with an industrial design and built-in I/O to handle diverse applications.

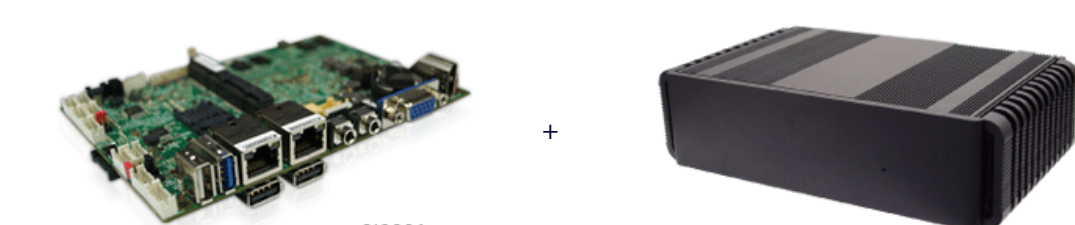
31380 A/C Spec:

Spec outline

1. Intel® Bay Trail-I E3815 1.46GHz (Single core) / E3845 1.91GHz (Quad core) CPU/ chipset
2. MB size 3.5" 146 x 102mm
3. Graphic: Intel Bay Trail-I Integrated Graphics chipset
4. Memory: 1 x DDR3L SODIMM or DDR3L 2G/4G Onboard
5. Features: VGA, LVDS, HDMI, 2 x Gb Ethernet, 2 x Mini PCIe, 1 x SIM card socket, 6 x USB, 6 x COM, Touch Screen Controller ; Wide Range DC in+9~36V; CPC -Car Power Control (option)

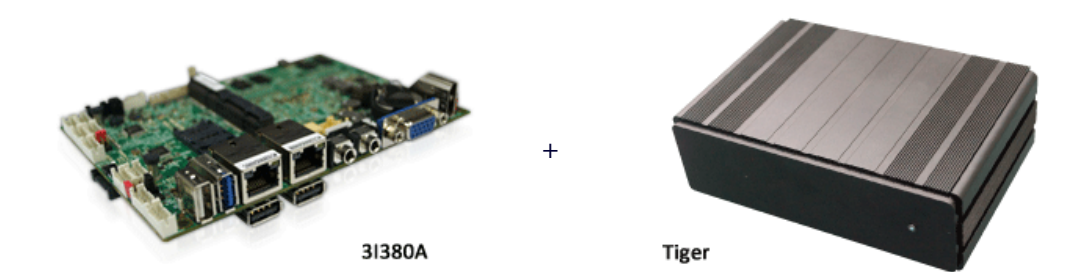
[MB Data download](#)

Chassis



Twitter Dimension: 210W x 125D x 55H

- Wide Range Temperature Solution
- Anti-vibration Solution



Tiger Dimension: 190.8W x 130D x 58.8H

- Wide Range Temperature Solution
- Anti-vibration Solution
- Rich IO ports, Heavy Duty Solution



Fanless Panel PC

- Touch screen Panel
- Panel frame Water Proof

Wide Range DC-IN & (CPC) Car PC solution with maximizing performance

As it comes to the application of industrial & transportation PC systems, how to deal with unstable voltage and current becomes a critical issue.

LEX's 31380A/31380C can be upgraded with Wide Range DC-IN built in as the model of 31380AW and 31380CW. 31380AW/CW with on board wide range DC in feature (9-36V) can protect PC system from damage causing by unexpected voltage and current and makes sure it operates normally.

Furthermore, LEX's 31380AW/31380CW can be upgraded with CPC module built in as an option; the CPC software with adjustable power on/off delay time function is developed to protect PC system from damage causing by Surge/ under voltage or over current problems.

Wide Range DC in Function

- Wide Range DC in for the range from +9V~+36V
- Over Current protection
- Surge Voltage protection
- Reverse input protection

CPC Function

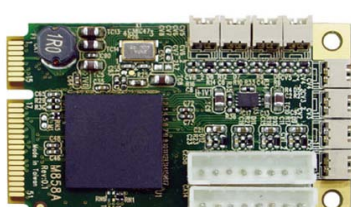
- Power input Reverse protection to -60V
- Power input Over surge protect
- Wide range DC in for car 12V input range from +9V to +36V
- Ignition power on/off delay time
- Battery under voltage power off (UVP)
- Software selectable power on/off delay time and under voltage level set



PC surveillance with maximizing performance

• M858A 8CH Video Capture card makes your security system no more blind vision

M858A is a high-quality NTSC/PAL video decoder card specifically designed for surveillance applications.



M858A

Specification	8CH D1 Video in & 8CH Audio in
	CONEXANT CX25858 chip
	10-bit NTSC/PAL Video Decoders
Dimensions	30 x 50.95 mm



• SDI – 1CH HD-SDI Video Capture card brings your the intelligent video surveillance system

1 CH HD-SDI Video Capture card is high-definition (various resolutions up to 1920 x 1080p) Minicard PCIe video capture module for SDI cameras. This card targets at single-camera applications requiring high-definition such as for video surveillance equipment or for on-site quality control in industrial environment.



SDI

Specification	SDI -1CH HD-SDI Video Capture Card
	1 x SDI Video Input
	Max. 1920 x 1080p @30/25/24 fps
Dimensions	30 x 50.95 mm



SDI – 1CH HD-SDI Video Capture card
brings your the intelligent video surveillance system

POS/Kiosk solution with maximizing performance

31380 A/C POS system can be connected to various extension devices via its flexible rear panel, such as barcode scanner, bill printer, or credit card swipe machine. Also, it could be a security access control system with RFID card reader, or to identify the employee whoever operate the system, to manage employees' schedules, and prevent the confidential information being leak out.

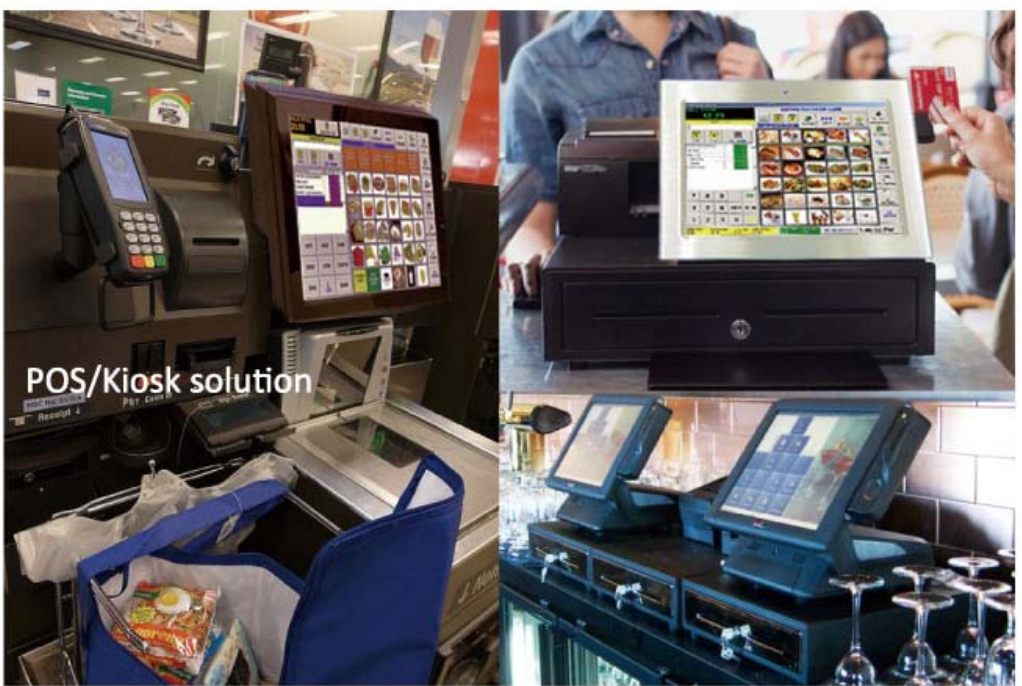
Resistive Touch POS
w/ Plastics Front Panel



Capacitive Multi-Touch POS
w/ Flat Projection Touch Panel



Capacitive Multi-Touch POS
w/ Stainless Front Frame



POS/Kiosk solution

Main Feature

- Easy-installed, cost-effective and fanless design
- Ideal for all kinds of POS solutions
- Adjustable tablet stand can be tilted 50 degrees up or down
- VESA 75/100 wall mount spec.
- Resistive touch screen / Capacitive multi-touch screen
- IP65 waterproof
- Open frame mechanical design
- Extension twin view solution
- LED backlight

Digital Signage solution with maximizing performance

LEX 31380A/C with multiple display interface : VGA, HDMI and LVDS, provides reliable & high performance platforms for customer to build up different types of digital signage tools which are able to advertising through high resolution display LCD screen 24/7 non-stop service in bus, display window, department store or air port information system.



Digital Signage solution
with maximizing performance

Automation control solution with maximizing performance

LEX 31380 A/C all-in-one industrial systems/ panel pc creates the ideal solution for upgrading the automation control system in nowadays factory assembly lines. 31380C MB supports multi-com ports to connect with various equipments & optional wide range DC in also helps it to be applied at tough power cranks working environments. Furthermore, 31380C panel pc equipped with IP65 front panel which is able to meet the waterproof & dustproof requirements of the various factory environments.



31380 A/C

Automation control solution

Machine Vision Solution with maximizing performance

With LEX rugged, compact & industrial design cases, 31380 A/C processes the 2 x Giga LAN & USB 3.0 interface for using high-speed cameras at wide range power supplied environments. LEX 31380 A/C system develops a completed machine vision solution for production facilities which require the greatest performance in a very limited space.



31380 A/C

Machine Vision Solution

Medical Imaging Solution with maximizing performance

LEX 31380A/C with SDI video capture cards can be dedicated to PC-base medical device. (medical imaging at surgery application, laboratory or measuring microscopes)

