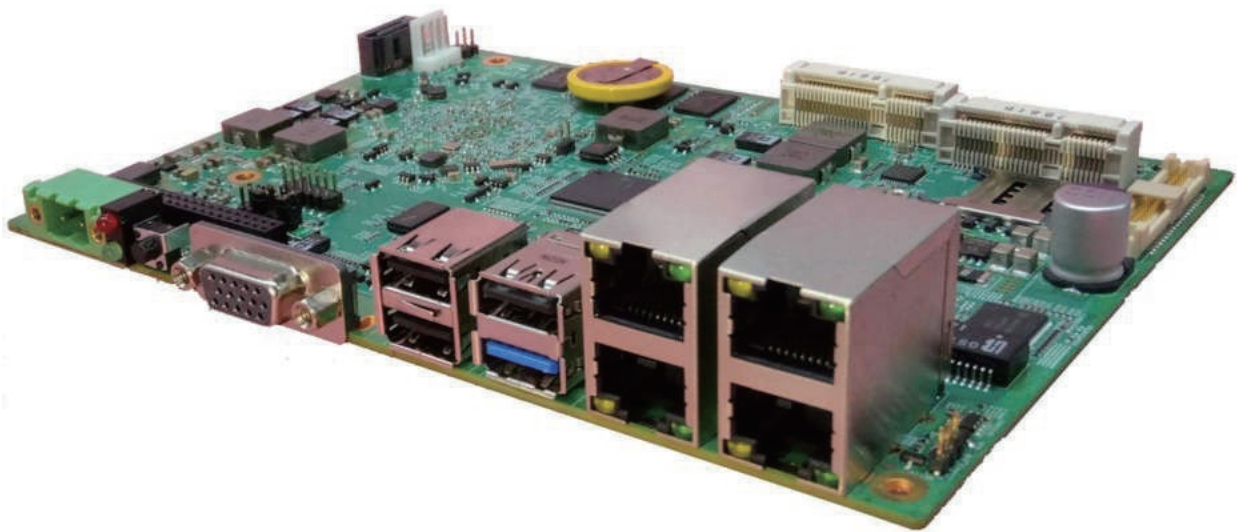




Embedded Motherboard with Intel Atom E38xx/J1900 System on Chip (SoC)

Features:

- Intel® Atom™ E38xx/J1900 SoC, TDP: 5-10W
- 4GB on board DDR3 (Voltage: 1.5V) 1066/1333MHz Memory
- Intel® Gen7 Graphics, OpenGL 3.0, OpenCL 1.2, DX11, H.264, MPEG2, MCV, VC-1, VP8
- VGA, DVI, eDP 1.3 Or LVDS (18/24bit Single or Double Channel)
- 10/100/1000Mbit RJ45 Intel Ethernet LAN With POE Function, SATA, mSATA, mPCIe
- USB 2.0 & USB 3.0 ports, Serial ports, GPIOs
- Lockable DC power connector (+9V~+24V DC, Recommend +12V)
- Temperature operating from -20°C to +75°C
- Temperature operating from -40°C to +85°C (optional)



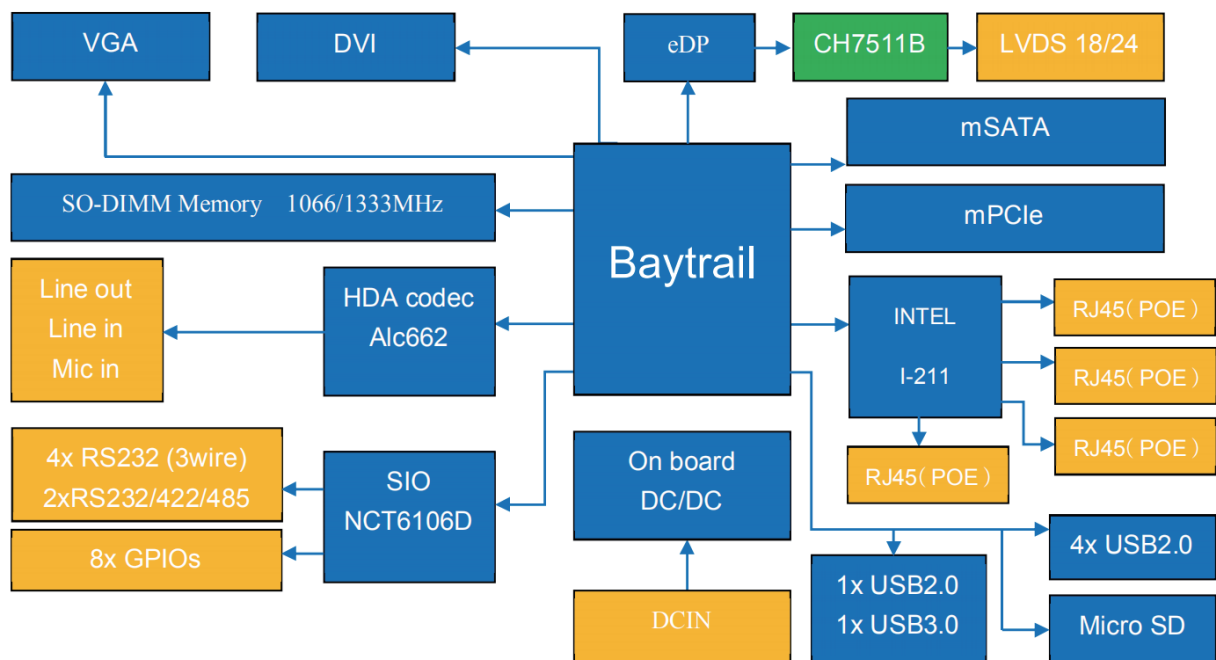
Order Information:

Article	Description
PCM-B401-A10-X	Display: 1 x LVDS or eDP + 1 x VGA
PCM-B401-A11-X	Display: 1 x LVDS or eDP + 1 x DVI
PCM- B401W-A10-X	Display: 1 x LVDS or eDP + 1 x VGA
	Temperature: -40°C to +85°C
PCM- B401W-A11-X	Display: 1 x LVDS or eDP + 1 x DVI
	Temperature: -40°C to +85°C
Note:	
X-CPU model, CPU: E3805, E3815, E3825, E3826, E3827, E3845, J1900	

Specification:

Processor	Intel® Atom™ E38xx SoC (1, 2 or 4 cores), Low power 5-10W TDP Supports: Intel® Atom™ E3805 Single Core 1.33GHz 3W Intel® Atom™ E3815 Single Core 1.46GHz 5W Intel® Atom™ E3825 Dual Core 1.33GHz 6W Intel® Atom™ E3826 Dual Core 1.46GHz 7W Intel® Atom™ E3827 Dual Core 1.75GHz 8W Intel® Atom™ E3845 Quad Core 1.91GHz 10W Intel® Celeron J1900 Quad Core 2.0GHz 10W Intel® Celeron N2807 Dual Core 1.58GHz 4.3W
Memory	4GB on board DDR3 1066/1333MHz
Graphics	2 x independent graphic outputs (eDP/LVDS, DVI, VGA) LVDS up to 1920 x 1200, DVI up to 2560 x 1600, VGA up to 2560 x 1600
Ethernet	4 x RJ45 10/100/1000Mb/s Ethernet With POE Function Maximum power of each port is 12W, and the total power is maximum 48W
SATA	1 x SATA 2.0
USB	5 x USB 2.0 and 1 x USB2.0/3.0 (4 on front I/O, 2 internal)
Serial Ports	4 x RS232 (3 wire) and 2 x RS232/422/485
IO	1 x mPCIe (Wifi), 1 x mPCIe (4G), 8 x GPIOs, 1x SIM
Audio	ALC662 HD Audio (Line-out, Mic-in)
Power Supply	+9V~+24V DC, Recommend +12V DC
Temperature	Operating -20°C to +75°C, -40°C to +85°C (optional)
Dimensions	165 mm x 115 mm
Cooling	Passive cooling solutions
Operating systems	Win7, Win8, WES7, WES8, Linux, VxWorks

Block Diagram:



ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, with 9 years' experience, always delivers best-in-class embedded computing solutions based on both ARM and X86 architecture, including hardware customization and software debugging etc. Partnered with silicon vendors like Intel, NXP, ST, Rockchip, Allwinners and so on, we have earned trust from clients worldwide in over 30 countries. Polyhex is also certified with ISO9001 and ISO13485 for the self-owned manufacture facility.

