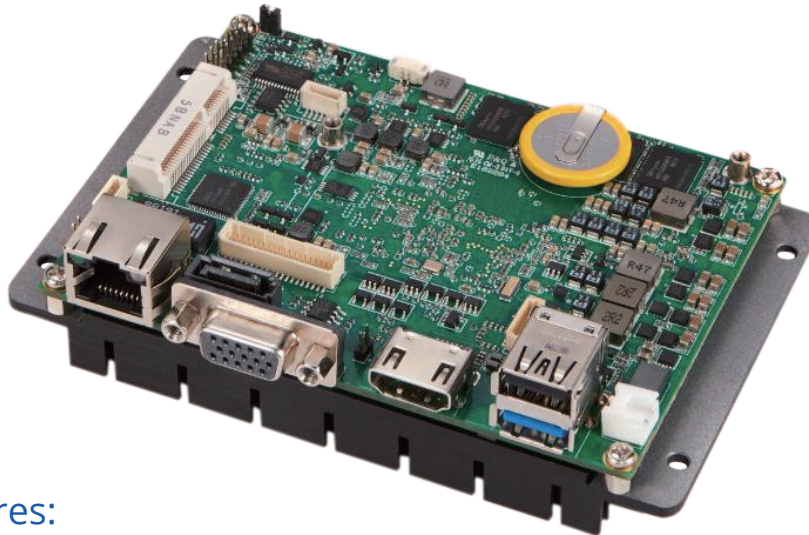




Embedded Motherboard Based on Intel Atom J1900 Quad Core CPU



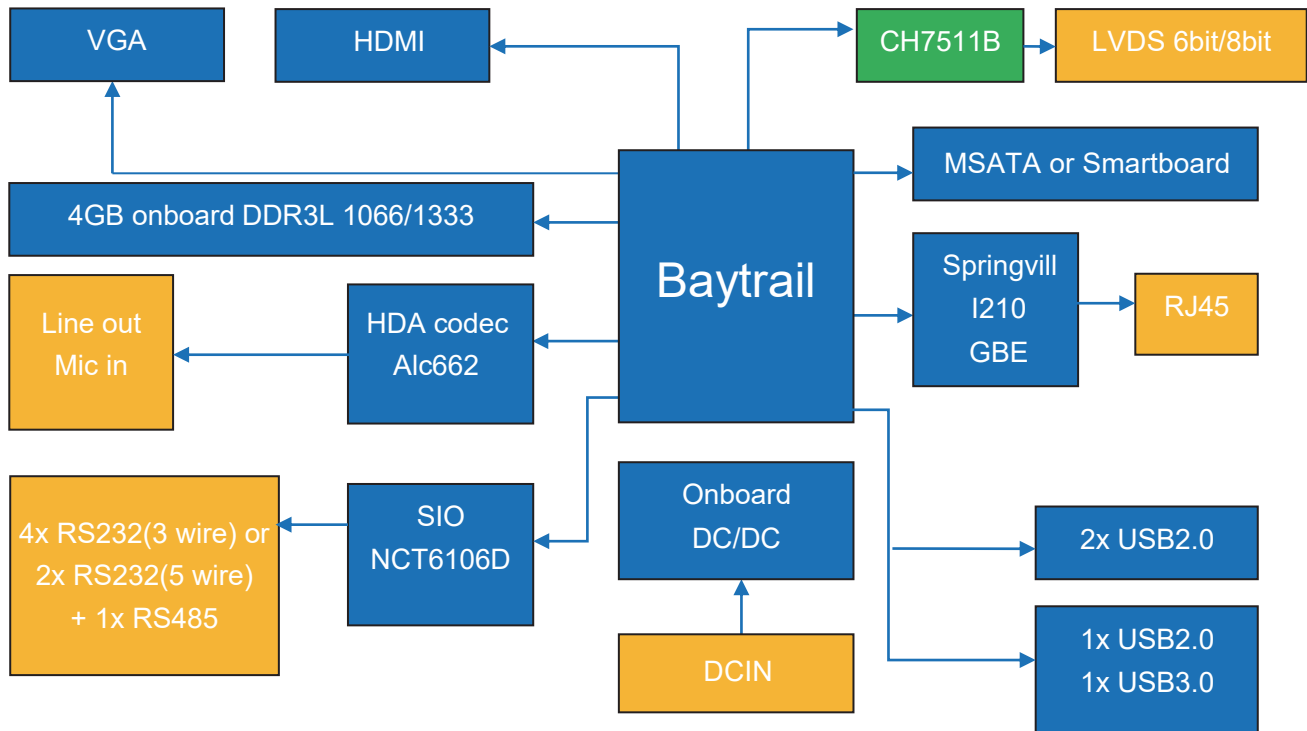
Main Features:

- Intel Atom J1900 Quad Core, 2.0GHz, 10W
- Onboard 4GB DDR3L Max. 1066MHz/1333MHz
- 7th Gen. Intel Graphics, supports OpenGL 3.0, OpenCL 1.2, DX11, H.264, MPEG2, MCV, VC-1, VP8
- Support VGA, HDMI1.4a, LVDS(6bit and 8bit optional)
- Support 10Mbps/100Mbps/1000Mbps Ethernet(Intel I210-AT Ethernet), SATA, mSATA(half-height) or smartboard through mPCIe
- With USB 2.0, USB 3.0, serial ports and GPIO(smartboard expansion)
- -20°C to +75°C operating temperature(-40°C to +85°C optional)

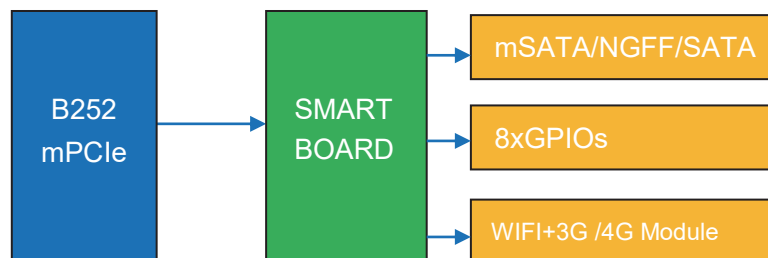
Specification:

Form Factor	2.5" motherboard
CPU	Intel Atom J1900 Quad Core, 2.0GHz, 10W
Memory	Onboard 4GB DDR3L Max. 1066MHz/1333MHz, voltage 1.35V
SATA	Support 1 x mSATA or 1 x Expansion Smartboard(support 1 x mSATA, 1 x NGFF and 1 x SATA)
Network	Integrated Intel I210-AT Ethernet, support 1 x 10Mbps/100Mbps/1000Mbps RJ45 port
Video	1 x LVDS(Max. resolution 1900 x 1200), 1 x HDMI 1.4a(front interface, Max. resolution 1920 x 1200), 1 x VGA(front interface, Max. resolution 2560 x 1600). Support 2lane asynchronous display.
Audio	ALC662 HD Audio Controller with Line OUT and Mic IN
USB	2 x USB 2.0(built-in), 1 x USB 3.0(front), 1 x USB 2.0(front)
Serial Ports	4 x RS232(3-wire) or 2 x RS232(5-wire), 1 x RS485
Power Supply	DC +9V~+21V, recommend DC +12V 5A
Operating Temp.	-20°C to +75°C(-40°C to +85°C optional)
Cooling	Fanless
Dimension	110mm x 82mm
OS	Windows 7/8/10, WES7, WES8, Linux, VxWorks

Motherboard:



Smartboard:



ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, with 12-year 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, Allwinner 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.

