

>> Datasheet <<

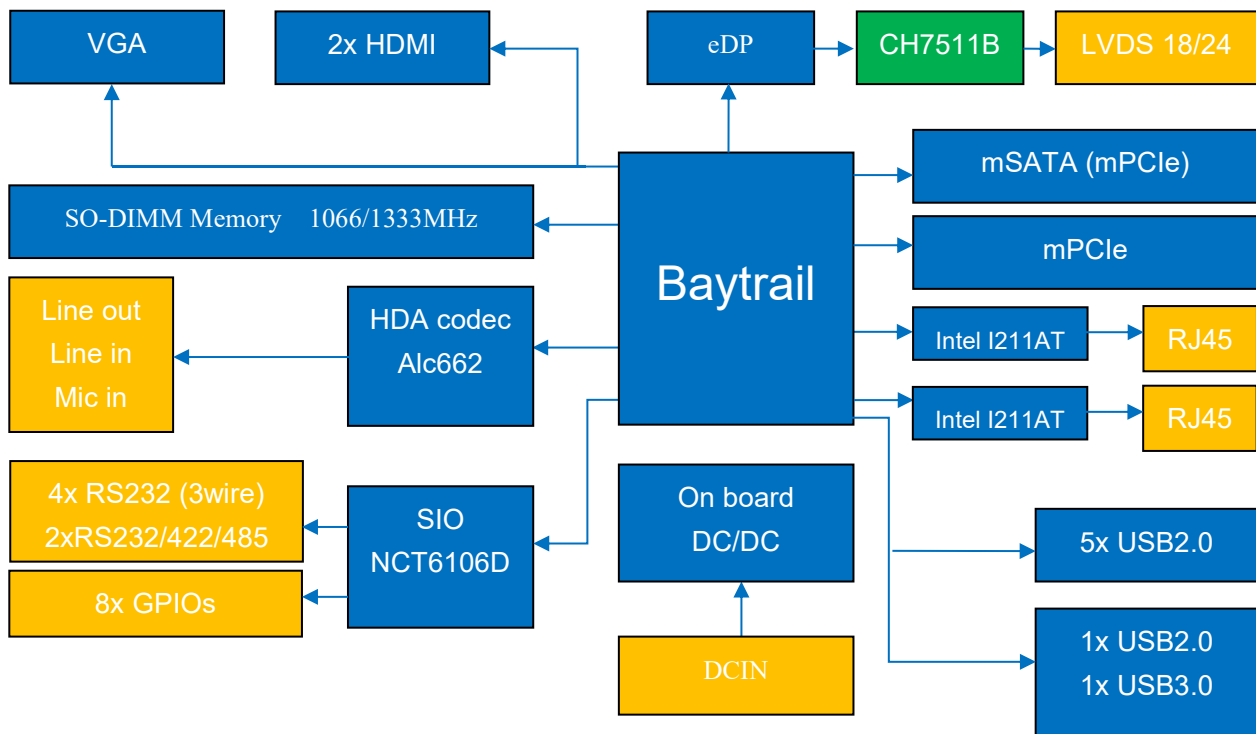
PCM-B351D



3.5 –inch motherboard, onboard Intel® Atom™ E38XX or J1900 series (SOC)

- » Intel® Atom™ E38xx or J1900 series SOC, TDP: 5–10W
- » SO-DIMM DDR3L memory (1.35V, supports up to 8GB) with a maximum frequency of 1066MHz or 1333MHz .
- » Supports Intel 7th generation graphics cores , OpenGL 3.0, OpenCL 1.2, DX11, H.264, MPEG2, MCV, VC-1, VP8
- » Supports eDP 1.3 , HDMI 1.4a , VGA, and LVDS (18/24- bit single-channel or dual-channel).
- » Supports 10/100/1000Mbit Ethernet , SATA, mSATA (mPCIe) , or mPCIe.
- » USB 2.0 and USB 3.0 interfaces , RS232/422/485 serial port, GPIO interface.
- » DC power connector with locking mechanism (input voltage : +12V ~ + 24V , + 12V recommended , + 9V ~ +24V optional)
- » Operating temperature: -20° C to +75° C
- » Operating temperature: -40° C to +85° C (optional)

PCM-B351C Block Diagram



Technical Information	
plate type	3.5 -inch motherboard
processor	Intel® Atom™ E38xx / J1900 series SoC (single-core , dual-core, or quad-core) , TDP: 5-10W support: 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® Atom™ J1900 Quad-Core 2.0GHz 10W
Memory	SO-DIMM DDR3L memory (1.35V, supports up to 8GB) with a maximum frequency of 1066MHz or 1333MHz .
Graphics processing	Two independent display outputs support eDP (maximum resolution 2560 x 1600) or LVDS (maximum resolution 1920 x 1200) , HDMI I 1.4a (maximum resolution 1920 x 1200) , and VGA (maximum resolution 2560 x 1600) .
Network card	Supports two Intel I211AT or I210AT 10/100/1000 Mb/s Ethernet ports.
SATA	Supports one mSATA and one SATA 2.0 port.
USB	Supports 5 USB 2.0 ports and 1 USB 3.0 / 2.0 port (4 front-facing and 2 internal) .
serial port	Supports 6 RS232 (3-wire) ports, 2 of which are selectable between RS232/422/485.
IO	Supports 1 mPCIe port, 8 GPIO ports, and 1 SIM card slot.
sound card	ALC662 High-Fidelity Sound Card (Line-in, Line-out, Mic-in)
power supply	+12V ~ + 24V voltage , + 12V is recommended , +9 ~ +24V is optional .
temperature	Operating temperature: -20° C to +75° C (-40° C to +85° C is optional)
size	146 mm x 101 mm
Heat dissipation	Fanless design
operating system	Win7, Win8, WES7, WES8, Linux, VxWorks

Ordering Information	
model	describe
PCM-B351 D -A10-X	Display : 1x LVDS + 1x HDMI or 1x LVDS + 1x VGA
PCM-B351 D -A11-X	Display : 1x eDP + 1x HDMI or 1x eDP + 1x VGA
PCM-B351 D -A12-X	Display : 2x HDMI or 1x VGA + 1x HDMI
PCM-B351 D W-A10-X	Display : 1x LVDS + 1x HDMI or 1x LVDS + 1x VGA Temperature : -40° C to +85° C
PCM-B351 D W-A11-X	Display : 1x eDP + 1x HDMI or 1x eDP + 1x VGA Temperature : -40° C to +85° C
PCM-B351 D W-A12-X	Display : 2x HDMI or 1x VGA + 1x HDMI Temperature : -40° C to +85° C
annotation:	
X represents the CPU model , including : E3805, E3815, E3825, E3826, E3827, E3845, and J1900.	