

>> Datasheet <<

PCM-B252



Miniature 2.5-inch motherboard with an onboard Intel® Atom™ E38XX / J1900 series (SoC) .

» Intel® Atom™ E38xx / J1900 series SoC (single-core , dual-core, or quad-core)
 , TDP: 5-10W

» 4GB onboard DDR3L memory (1.35V) with a maximum frequency of 1333MHz

Supports Intel 7th generation graphics cores , OpenGL 3.0, OpenCL 1.2 , DX11,
 H. 264, MPEG2, MCV, VC-1, VP8

» Supports VGA, HDMI 1.4a , and LVDS (6-bit and 8-bit optional).

» Supports 10/100/1000Mbit Ethernet (Intel I211 AT / I210AT Ethernet) , SATA,
 mSATA (half-height) , or expansion via mPCIe connector for smartboards .

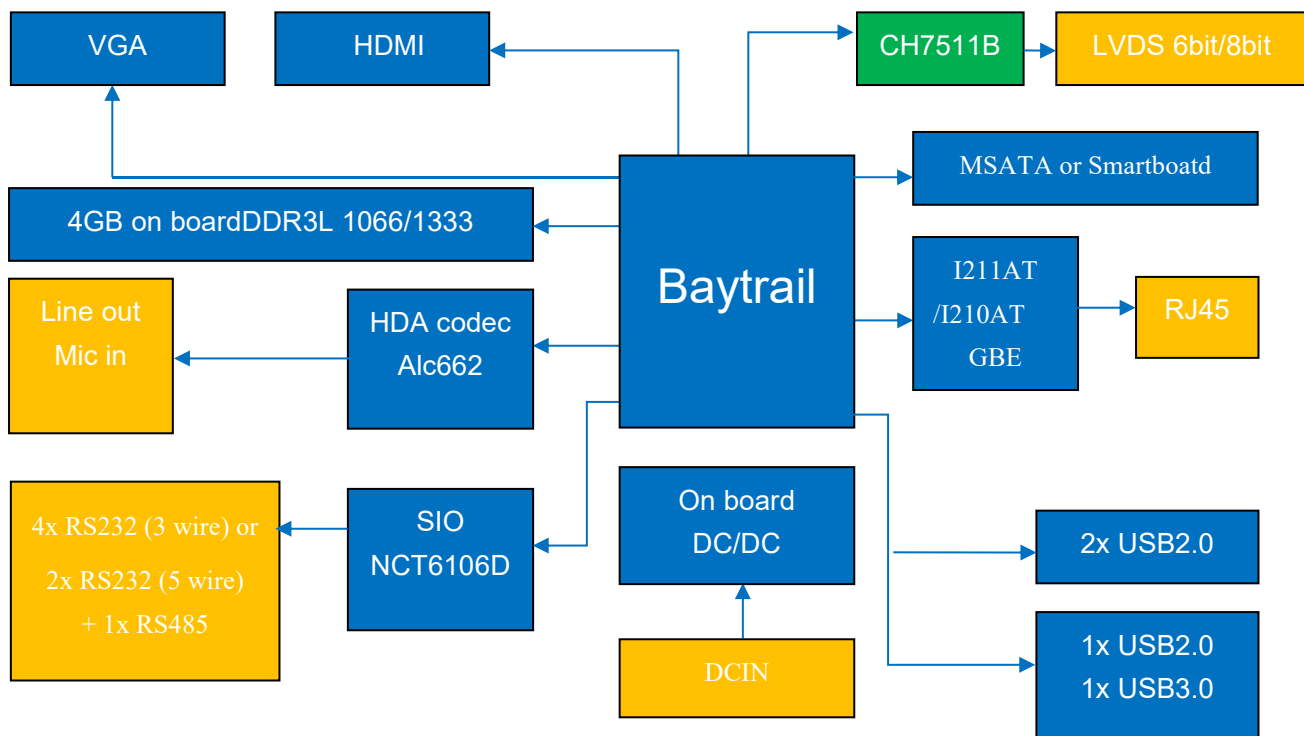
» USB 2.0 and USB 3.0 interfaces , serial port, GPIO interface (for smartboard
 expansion).

» DC power input (voltage: + 12V ~ + 24V , 9-24V optional)

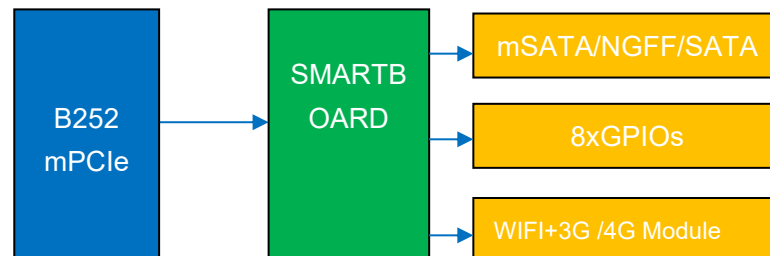
» Operating temperature: -20° C to +75° C

» Operating temperature: -40° C to +85° C (optional)

PCM-B252 Block Diagram



Smartboard



Technical Information	
plate type	2.5-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
	Intel® Atom™ N2807 Dual-core 1.58 GHz 4.3 W
Memory	4 GB onboard DDR3L memory (1.35V) with a maximum frequency of 1333MHz
Graphics processing	Three display output interfaces: LVDS (maximum resolution 1900x1200) ; HDMI 1.4a (front panel, maximum resolution 1920 x1200) ; VGA (front panel, maximum resolution 1920 x1080) , supporting simultaneous asynchronous display of two channels .
Network card	Supports one RJ45 port (10/100/1000 Mb/s) , and integrates an Intel I211AT /I210AT Ethernet card .
SATA	Supports one mSATA port or expansion with one Smartboard (supports one mSATA , one NGFF , and one SATA port).
USB	Supports 2 USB 2.0 ports (built-in) ; 1 USB 3.0 port (front) ; 1 USB 2.0 port (front) .
serial port	Supports 4 RS232 (3-wire) or 2 five-wire RS232 and 1 RS485
sound card	ALC662 High-Fidelity Sound Card (Line-out, Mic -in)
power supply	DC + 12V ~+ 24V voltage , DC + 12V 5A is recommended , 9-24V is optional .
temperature	Operating temperature: -20 °C to +75 °C (-40 °C to +85 °C is optional)
size	110mm x 82mm
Heat dissipation	Fanless design
operating system	Win7, Win 10 , Linux

Ordering Information	
model	describe
PCM-B25 2 -A10-X	Display : 1 x VGA, 1 x HDMI, 1 x LVDS (6-bit) 4 GB RAM Temperature : -20 °C to +75 °C
PCM-B25 2 -A11-X	Display : 1 x VGA, 1 x HDMI, 1 x LVDS (8-bit) 4 GB RAM Temperature : -20 °C to +75 °C
PCM-B25 2 W-A10-X	Display : 1 x VGA, 1 x HDMI, 1 x LVDS (6-bit) 4 GB RAM Temperature : -40 °C to + 85 °C
PCM-B25 2 W-A11-X	Display : 1 x VGA, 1 x HDMI, 1 x LVDS (8-bit) 4 GB RAM Temperature : -40 °C to + 85 °C
annotation:	
X represents the CPU model , which includes : E3805, E3815, E3825, E3826, E3827, E3845, J1900, and N2807.	