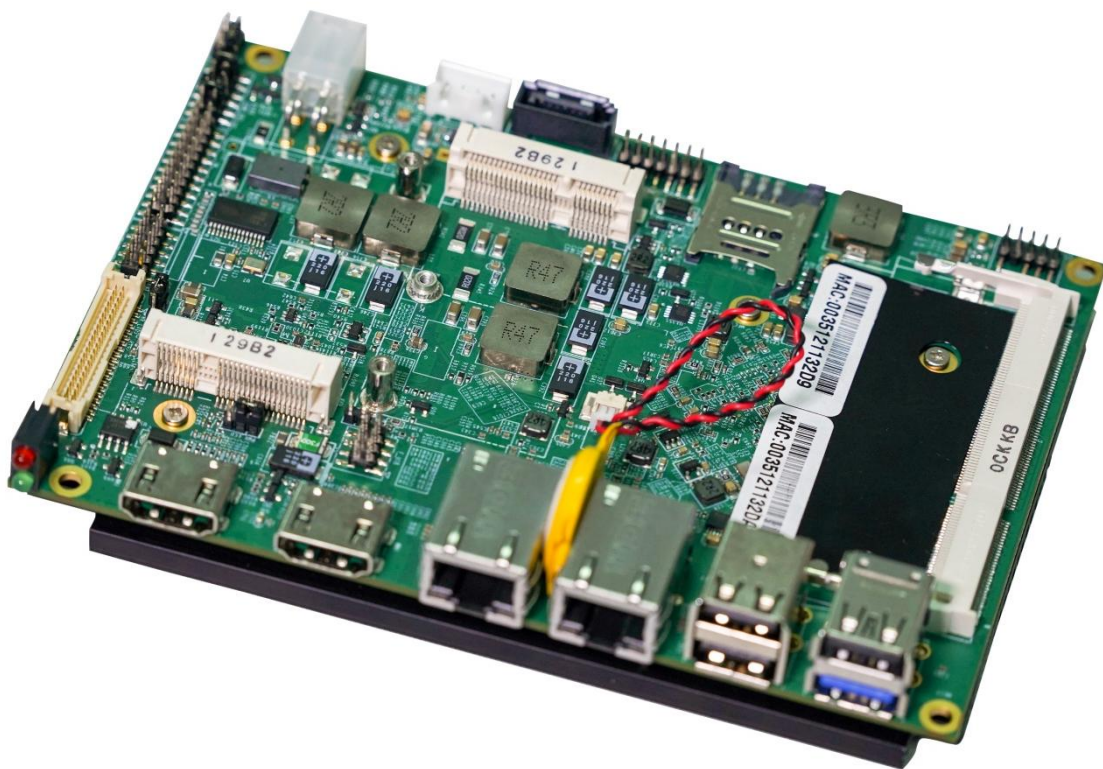


>> Datasheet <<

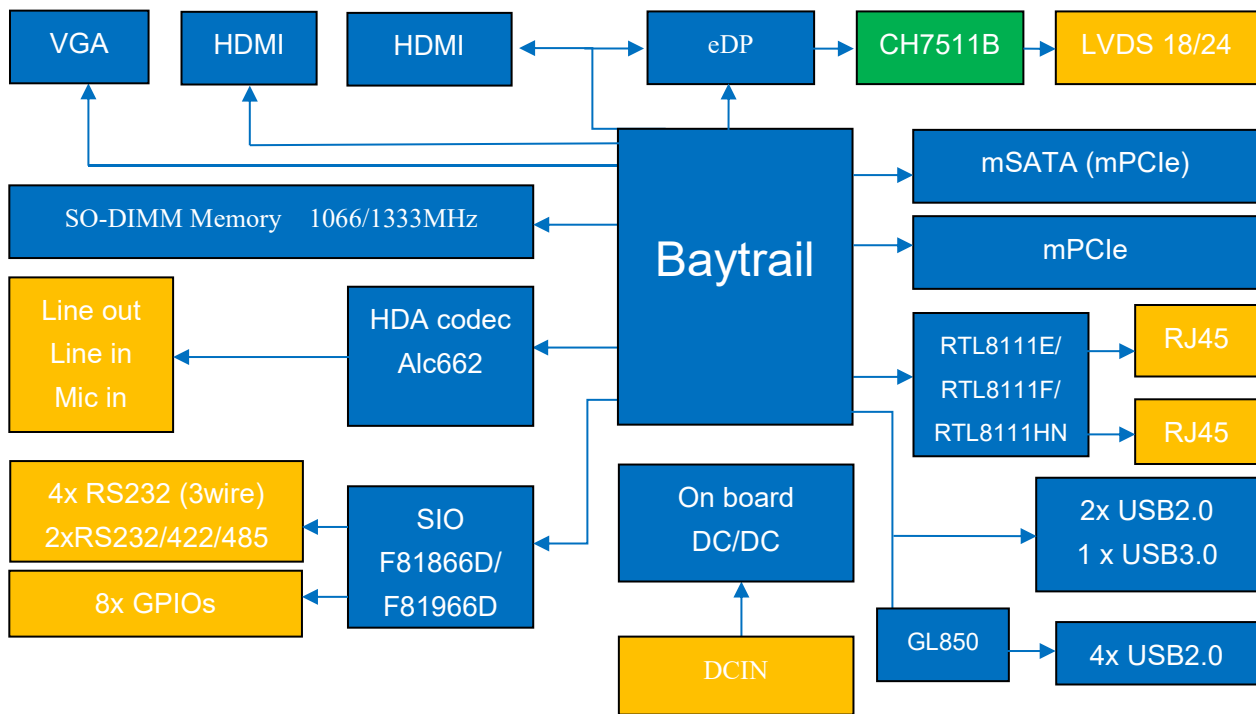
## PCM-B351E



### 3.5-inch motherboard with onboard Intel® Atom™ E38XX or Celeron™ J1900 series ( SOC )

- » Intel® Atom™ E38xx or Celeron™ J1900 series SOC, TDP: 5-10W
- » SO-DIMM DDR3L memory (1.35V, supports up to 8GB ) 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 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.
- » Input voltage: + 12V ~+ 24V , + 12V is recommended .
- » Operating temperature: -20° C ~ +75° C (optional -40 ° C ~) +8 5 ° C)

## PCM-B351E Block Diagram



| Technical Information |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| plate type            | 3.5 -inch motherboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| processor             | <p>Intel® Atom™ E38xx / Celeron™ J1x00 series SoC (single-core , dual-core or quad-core) , TDP : 5-10W<br/>support:</p> <p>Intel® Atom™ E3805 Single Core 1.33GHz 3W</p> <p>Intel® Atom™ E3815 Single Core 1.46GHz 5W</p> <p>Intel® Atom™ E3825 Dual - Core 1.33GHz 6W</p> <p>Intel® Atom™ E3826 Dual - Core 1.46GHz 7W</p> <p>Intel® Atom™ E3827 Dual - Core 1.75GHz 8W</p> <p>Intel® Atom™ E3845 Quad-Core 1.91GHz 10W</p> <p>Intel® Celeron™ J1800 Dual - Core 2.41 GHz 10W</p> <p>Intel® Celeron™ J1900 Quad -Core 2.0GHz 10W</p> |
| Memory                | S0-DIMM DDR3L memory (1.35V, supports up to 8GB ) with a maximum frequency of 1333MHz .                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Graphics processing   | Two independent display outputs support eDP (maximum resolution 1920 x 1080 ) or LVDS (maximum resolution 1920 x 1080 ) , HDMI 1.4a ( maximum resolution 1920 x 1080 ) , and VGA (maximum resolution 1920 x 1080).                                                                                                                                                                                                                                                                                                                    |
| Network card          | Supports two RTL8111H N ports ( 10/100/1000 Mb/s Ethernet ).                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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, with COM1 and COM2 selectable between RS232/422/485.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| I/O                   | Supports 1 mPCIe port, 8 GPIO ports, 1 SIM card slot, and 1 TPM socket.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| sound card            | ALC662 High-Fidelity Sound Card (Line-in, Line-out, Mic-in)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| power supply          | + 12V to + 24V voltage , + 12V is recommended .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| temperature           | Operating temperature: -20° C to +75° C ( optional: -40° C to + 85 ° C)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| size                  | 146 mm x 101 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Heat dissipation      | Fanless design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| operating system      | Win7, Win10, Linux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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