



Product Release Bulletin

Product Name: **E-Main Rev.04**

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PID: **PB0790**

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Hardware Description

The "E-Main" mainboard is a part of every Xorcom Astribank and Xorcom IP-PBX appliance that is equipped with telephony module(s). Starting immediately with S/N X1055000, the new mainboard (P/N PB0790 rev. 04) is being used in every new Xorcom Astribank and IP-PBX.

The new mainboard is compatible with the telephony modules that were used with the previous version of the mainboard (P/N PA0431):

Module Type	Product ID	Revision	Start Date for Manufacturing
FXS	XR0024	PA250	January, 2008
FXS with I/O ports	XR0045	PA250	January, 2008
FXO	XR0025	PA280	August, 2007
6xFXS, 2xFXO with I/O ports	XR0035	Any revision	
2xFXS, 6xFXO	XR0126	Any revision	
BRI	XR0037	Any revision	
E1/T1	XR0052	Any revision	
FXS-FXO Failover	XR0129	Any revision	

Software Requirements

The new mainboard is not supported by the current DAHDI versions 2.5.0.2 and 2.6.0. As a result, Astribank customers must build and install DAHDI using DAHDI branch number **2.5.1** or **2.6.1**. Customers with a Xorcom IP-PBX that uses the previous version of the mainboard (older than S/N X1055000) who want to add an Astribank with the new mainboard must upgrade the DAHDI packages on the IP-PBX to version **2.5.0.2.svn.r10584-1**.

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Changes

- Better protection against lightning and spikes (ESD).
- The EEPROM data integrity has been improved. This will solve the problem with EEPROM data corruption when an Astribank presents itself as "04b4:8613 Cypress Semiconductor Corp..."
- The built-in DC-to-DC telephony power supply has been significantly improved to reduce heat generated and energy required, improving reliability and increasing mean time between failures (MTBF).
- It is now possible to ring all 32 FXS ports simultaneously (instead of only 8 ports using the previous board).
- The on-hook voltage for the FXS ports has been increased to 34V (from 28V in the previous versions). As a result, extensions can be supported over greater distances (from 3.2 kilometers with the previous board to 3.6 kilometers with the new board).
- Noise from analog circuits has been reduced.
- A different FPGA (Xilinx instead of Altera) provides better functionality and more room for additional features.
- Fan speed control has been added to further increase MTBF.

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