

DVX-8010 eMain Module Data Sheet

The DVX-8010 is the control module of each Telephony module. The module communicates with the Asterisk[®] server, and an internal SPI (Serial Peripheral Interface) to communicate with the internal Telephony modules.

The DVX-8010 produces 3.3 VDC needed to run all the modules and the special telephony voltages (-24 to -30 volts for analog telephones normal operation and -80 to -92 Volts for the ring current). The module uses 12 VDC at a maximum current of 5 Ampere.

A large scale integration FPGA (Field Programmable Gate Array) runs the firmware, which coordinates all the logic and timing events necessary to run the Astribank.

The USB 2.0 interface supports a theoretical data flow of 480 Mbits/second.

The maximum number of telephony channels supported by a single DVX-8010 is 144 (4 E1/T1 PRI channels + 24 analog channels). When used with the DVX-8000, the maximum channels supported is 54 (1 E1/T1 PRI channel + 24 analog channels).

Each eMain module is capable of running the hardware-based echo canceller module. This echo cancellation module can support up to 144 channels. The eMain module can support up to four Telephony modules and a cooling fan.

The eMain module stores the Astribank licenses that are necessary to activate the telephony modules. When driving FXS modules, forced-air cooling is mandatory to assure reliable, long term module operation.



DVX-8010 Front View



DVX-8010 Top View

Environmental Operation Information

- Temperature: 0-40 degrees Centigrade
- Humidity: up to 95%, non-condensing

Physical Dimensions

- 90x105 Millimeters

Certifications

- FCC 47CFR part 15 subpart B
- RoHS
- EC

Asterisk is a registered trademark of Digium, Inc. Specifications may change without prior notice.

