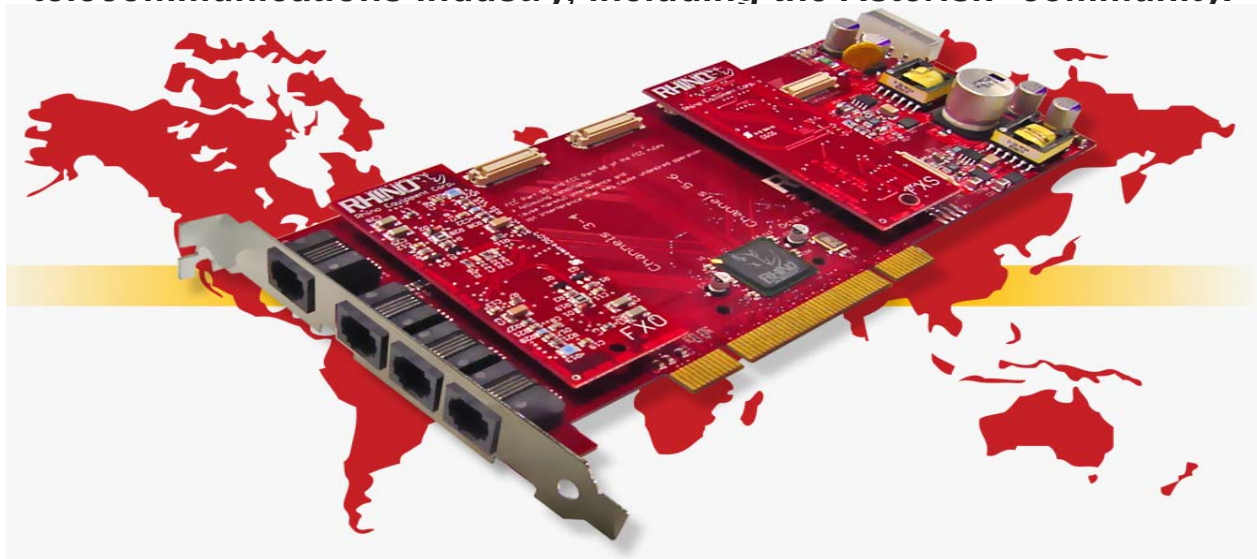


# Linux Open Source Telephony Octal FXS and FXO PCI Plug-In Card

**Providing reliable, flexible, and leading-edge solutions for a demanding telecommunications industry, including the Asterisk\* community.**



Managing your open source telecommunication needs has never been easier than with Rhino products. Rhino PCI plug-in cards satisfy the needs of Open Source Telephony (OST) applications, no matter how stringent the requirement. Rhino Open Source Telephony PCI cards feature Asterisk and Linux tested software. Knowing that Rhino products are ready to perform right out of the box means that you can spend more time developing important customer relationships.

Rhino Equipment Corp. offers you a complete line of low cost PCI plug-in cards including Single T1/E1, Dual T1/E1, Quad T1/E1, Quad FXO analog, Octal FXS/FXO and 24-port analog mixed mode analog interfaces. And don't forget the full line of Rhino Channel Bank products, for large scale analog FXS or FXO applications.

Using Asterisk? Rhino Open Source Telephony PCI products allow you to utilize analog phones and wiring in conjunction with leading-edge Asterisk technology -- without having to buy expensive IP telephones. Why go IP when you can save on installations by using your proven existing wiring? With Rhino you can use lower cost analog phones with digital features and get guaranteed T1 voice quality, all while enjoying Asterisk VoIP technology for off-premise connectivity.

Rhino products are tough. In the rare case of trouble, our technical support staff is ready to give you the support you need, when you need it. Our 5-year, limited warranty means that you can be confident that Rhino will always work hard in your Open Source Telephony application.

\* Asterisk is a registered trademark of Digium

# Rhino Equipment Corp.

## Octal FXX PCI Plug-In Card Specifications



### PCI Card Features

- Eight channels of FXS or FXO analog, utilizing four 2-port modules
- Asterisk soft PBX tested
- Zaptel-compliant open source Linux module code
- Proven Silicon Labs FXO DAA component - Si3050 and international line interface device - Si3019
- Proven Silicon Labs FXS SLIC Si3220
- Custom Rhino PCI interface chip means no excess CPU overhead
- Four RJ11 4-wire jacks at card bracket, first channel on inside pair, second channel on outside pair
- SLIC power derived from +12 and +5V ATA connection
- Field software upgradable
- All major signaling modes
- Loop start signaling for advanced features such as Caller ID and Distinctive Ring
- 5-year limited warranty

### Benefits

Rhino Equipment Corp. provides a flexible and reliable product line to satisfy all T1, E1 and analog needs. Our products will beat your expectations, or your money back - guaranteed.

Our limited 5-year warranty means that you do not have to worry about your investment while it is in use - we do that for you.

### DAA (FXO) Features

- On-chip uLaw or aLaw CODEC with integrated PCM highway
- 80db dynamic range Tx/Rx
- 3 uA on-hook line monitor current
- Programmable digital gains
- Line voltage monitor
- Loop current monitor
- Integrated ring detector
- Parallel handset detection
- Programmable line interface, including AC termination, DC termination, ring detect threshold, ringer impedance to support over 70 country interfaces
- Tip.Ring polarity reversal detection
- 2-to-4 wire hybrid with programmable near-echo reduction
- Passes Caller ID

### SLIC (FXS) Features

- On-chip uLaw or aLaw CODEC with integrated PCM highway
- Integrated ring and battery generators
- On hook active for inband FSK signaling

### Mechanical Data

**Size:** 3.6" tall, 8.00" wide

**Form Factor:** Single PCI slot

**Shipping Weight:** 1 pound with all included components maximum

### Why Rhino?

Stop paying high prices when all that you want is a product that works, from a company that believes that your success is our success.

All Rhino products are designed and manufactured in the USA by Rhino engineering and manufacturing staff. Using Rhino products guarantees that you are getting the lowest price while receiving the highest performance.

Rhino Equipment Corp. is a leading supplier of highly flexible and reliable products that satisfy all T1, E1 and analog needs for Open Source Telephony projects.

Our products will beat your expectations, or your money back - guaranteed. Our limited 5-year warranty means that you do not have to worry about your investment while it is in use - we do that for you.

Remember that our technical support staff will not go home at 5PM and tell you to call back tomorrow!

**Call us!**  
**(800) 785-7073 Option 1**

**Email us!**  
**sales@rhinoequipment.com**

**Technical questions?**  
**support@rhinoequipment.com**

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Rhino Equipment Corp. is proud to manufacture our products in the U.S.A..

Specifications are subject to change without notice.

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