

## Synway Asterisk 1 Port PRI Card (TEJ-1A/PCI)



Product Name: Synway Asterisk 1 Port PRI Card (TEJ-1A/PCI)

Manufacturer: Synway

Model Number: TEJ-1A/PCI

**Availability:** In Stock Compatible with Asterisk and other open source platform, the TEJ series is of the robust hardware architecture to help software developers and service providers deliver cost effective open source solutions, including IP-PBX, gateway, IVR or other telephony applications. Up to 4 trunks (T1/E1/J1) per card, the telephony cards of the TEJ series support up to 480 voice calls in a single system in the most difficulty situations. The TEJ series leverages Synway's patent-pending echo cancellation technology and decades of voice processing expertise to guarantee high audio quality and unmatched pricing points for Asterisk-based solution providers. Up to 64 ms, the Synway's echo canceller is on-board DSP-enabled and eliminates the need for expensive echo cancellation module. Supporting each channel on the full four E1, T1 and J1 lines, the echo processing capability has been field-proven by some leading carrier labs and made Synway's product offerings the most cost affective and accountable worldwide. Compatible with PCI or PCI-express interface, the TEJ series utilizes the latest DMA data processing technology to minimize the consumption of CPU capability, enabling developers to design the high-performance solutions featuring high robustness, scalability and interoperability in the demanding telecommunication environments.

**KEY FEATURES AND BENEFITS**

**Configurable T1/E1/J1** A kind of highly flexible hardware platform, TEJ series supports software configurable T1/E1/J1 interfaces. Selectable interfaces, T1/E1/J1 lines, are conveniently available in a single box to fit into complex and hybrid environments, which improves system's flexibility. Built-in echo cancellation of Telco-grade Each channel (up to 32 ports per slot) supports quality echo cancellation (128 ms) and voice quality enhancements. A kind of built-in DSP-enabled capability based upon adaptive filter algorithm with automatic adjustments.

**Open Sources Supported** Support Asterisk, Trixbox, Freeswitch and other open source for IP-PBX, gateway, IVR, voicemail and other telephony applications. Synway accumulates much know-how on hardware design and tech. support to help developers configure, evaluate, develop and design standard or custom open source solutions.

**Scalability and Robustness** TEJ series (digital telephony card) utilizes DMA technology, and the optimized DMA streams minimize the hitting to host CPU. Most efforts have been offloaded from host CPU to the on-board DSP resources to maximize system's reliability in the most difficulty situation, enabling software developers and service providers to deliver highly flexible and scalable systems (up to 480ports). Easy use and intelligence To help you design an array of open source applications conveniently, the TEJ series is optimized with rich features like friendly interface, automatic configuration and troubleshooting, with 24x7 global availability of tech. support, helping you design an array of robust Asterisk-based or other open-source telephony systems.

**Technical Specifications**

**Product models**

TEJ-1A/PCI, PCI(-x), PCIe, 1E1/T1/J1 software configurable

TEJ-2A/PCI, PCI(-x), PCIe, 2E1/T1/J1 software configurable

TEJ-4A/PCI, PCI(-x), PCIe, 4E1/T1/J1 software configurable

**T1/E1/J1 Interface** 1 or 2 or 4 T1/E1 ports with a single PCI or PCI-Express interface optimized for high performance voice and data applications. Only software configurable for any kind of physical interfaces. Both T1 or E1 or J1 are mixed simultaneously in a single system. A complete range of open sources supported Support for Asterisk, Trixbox and FreeSwitch, as well as other open source IP-PBX, Switch, IVR, or VoIP gateway applications.

**Audio Specifications**

CODEC: CCITT A&micro;-Law 64kbps

Distortion: =3%

Frequency response: 300-3400Hz (&plusmn;3dB)

Signal-to-noise ratio: =38dB

Echo suppression: =40dB

## Synway Asterisk 1 Port PRI Card (TEJ-1A/PCI)

**Basics** Automatically compatible with 5 V and 3.3 V PCI busses, and fully PCI 2.2 compliant PCI-X **Echo Cancellation** The self-adaptive echo cancellation technology taps 128 ms tails (1024 taps/128 ms tail per channel) and can effectively eliminate echo effect during any hybrid VoIP application. **A complete range of open sources supported** Support for Asterisk, Trixbox and FreeSwitch, as well as other open source IP-PBX, Switch, IVR, or VoIP gateway applications. **DMA data exchange** The use of PCI-based DMA technique for data reading and writing helps minimize the cost of the host CPU. 32-bit bus master DMA data exchanges across PCI interface at 132 MB/s for minimum host processor intervention, and optimized per channel DMA streams and hardware-level. **Input/output Interface**

• Digital trunk interface: TEJ-1A/PCI: 1 RJ48C jack; TEJ-

2A/PCI: 2 RJ48C jacks; TEJ-4A/PCI: 4 RJ48C jacks

• E1 interface: Compliant with G.703, including 75Ω unbalanced interface and 120Ω balanced interface

• T1/J1 interface: DSX-1 and CSU line build-outs available for different extents of signal losses, including 100Ω and 110Ω balanced interfaces

### Environment

• Operating temperature: 0°C—55°C;

• Storage temperature: -20°C—85°C;

• Humidity: 8%—90% non-condensing

• Storage humidity: 8%—90% non-condensing

### Operating Systems

• Linux (all versions, releases and distributions from 1.0 up).

• FreeBSD.

• Solaris.

• Unix

**Maximum System Capacity** Depends on the system consumption of Asterisk and the processing capability of computer. **Certification** CE, FCC Part 15 Class A and Class B, EN 55022, EN 55044, CISPR 22, CISPR 24 **Safety** Lightning resistance: Level 4 **Warranty** 6-years warranty, refundable 2-month return, lifetime maintenance, free support **RoHS** ISO 9001:2000

**Price: £569.00**