

# Brooktrout® TruFax®

## *Analog and Basic Rate Fax Media Processing*

The Brooktrout® TruFax® Series intelligent fax boards offers small to medium sized businesses and departmental workgroups dependable fax capabilities for a variety of computer based fax applications, such as network fax and fax broadcast. Unlike Class 1 and Class 2 fax modems, TruFax's advanced fax algorithms, dedicated fax processing components, and a single-purpose design delivers the performance that enterprise fax applications require.

Acquired from over a decade of experience, The Brooktrout® TruFax® Series has a built in library of communication techniques that identify and adapt to the various implementations of real world fax machines and line conditions. This technical formula, TruFax's Adaptive Call Progress ensures unparalleled levels of compatibility, high rates of connectivity and high overall transmission speeds.

The Adaptive Call Progress algorithms ensure high connectivity rates and transmissions speeds across a wide range of fax machines and telephone line conditions. It is the same intelligent fax technology used in Brooktrout high-end, market leading TR114™ and TR1034™ Series. TruFax® processes the fax protocol onboard, thereby lowering the CPU utilization of the server and improving overall system performance. Designed purposely to support fax-only modulation, TruFax® provides a high level of network security from unauthorised data call attempts.

The TruFax® Series offers a level of reliability and fax performance that businesses can depend on at an economical price point.

## MODELS/CONFIGURATIONS

- 1 channel analog uPCI & PCIe
- 2 channel analog uPCI & PCIe
- 2 channel fax board with BRI interface uPCI & PCIe
- 4 channel fax board with BRI interface uPCI & PCIe

## FEATURES AND BENEFITS

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**14.4Kbps fax transmission speeds**

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**Onboard fax protocol processing to offload utilization from the server**

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**Adaptive call progress to ensure high connectivity rates and transmissions speeds across a wide variety of fax machines and line conditions**

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**Fax-only modulations for network security from data call attempts**

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**Install up to 4 boards per server (see TR1034 for higher density fax boards)**

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# TruFax® SPECIFICATIONS

## HARDWARE

### Analog

Processors: NS32FX I64 Integrated CISC and DSP  
CPU: (per channel) : 16 MHz Zilog Z86C91  
Fax modem (per channel): Conexant 144EFLX  
Media Channels : Up to 2 V.17 fax  
Network interface: 1 or 2 Loop start RJ-11  
Physical: half-size 33 MHz PCI 2.3 universal card (3.3/5V signaling)  
Power: 2W

### BRI

CPU: PowerPC 8241 @ 200MHz  
DSP: TI C5402 (61 MIPS total)  
Media channels: Up to 4 V.17 fax  
Network interface: 1 or 2 BRI  
Signaling: ISDN BRI, Euro, Japan  
Physical: half-size 33MHz PCI 2.2 Universal card (3.3/5V signaling)  
Power: 5W

## ENVIRONMENT

Temperature: 0°–50°C operational  
Humidity: 10%–95% (non-condensing)

## FAX

Up to 14.4Kbps with auto fallback  
ITU T.30; Group 3  
Analog: V.17, V.21, V.23, V.27, V.29, V.33 modulation  
BRI: V.17, V.21, V.23, V.27ter, V.29 modulation  
Normal and fine resolution: 100x200, 200x200  
Analog-MH compression, BRI-MH, MR compression  
On-board image conversion  
A4 page size  
Format Conversion “on-the-fly”: ASCII, TIFF-F

## CALL PROGRESS AND CALL CONTROL

### Analog

Dialing and Call Progress: Onboard DTMF generation and detection  
Adaptive (S.I.T. detection included), Pulse and DTMF BRI  
International call progress and tone detection  
Programmable tone and cadence detection/generation  
CED, CNG, v.21 modem detection  
ANI/DNIS DTMF and MF detection

## OPERATING SYSTEM SUPPORT

### Analog

Windows NT, 2000 Server, 2003 Server  
Red Hat Linux 7.0, 8.0

### BRI

Windows NT, 2000 Server, 2003 Server and XP Professional  
Solaris SPARC 8 and 9 (32 and 64)  
Redhat Linux 7.2, 7.3, Advanced Server 2.1 and Enterprise Server 2.1

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**Innovator**



**MESSAGEmanager**  
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