

# TruFax Series

## Enterprise Performance at Small Business Value

With the TruFax® Series, Brooktrout, the worldwide leader in enterprise intelligent fax technology for over two decades, brings to small businesses quality, reliable, high performance fax technology that enterprises have come to expect.

The TruFax Series is a line of intelligent fax boards that offer small businesses and departmental workgroups dependable network fax capabilities for a variety of applications, such as fax server and workflow fax.

Unlike Class 1 and Class 2 fax modems and multipurpose telephony adapters, TruFax is purpose-built for fax-only modulation, leveraging advanced fax algorithms and dedicated fax processing horsepower to deliver high-octane performance and mission-critical reliability.

TruFax's Adaptive Call Progress, a built-in library of communication algorithms that identify and adapt to various fax machines and line conditions, ensures unparalleled levels of compatibility, high rates of connectivity and high transmission speeds across the widest range of fax machines and telephone line conditions. Plus, the TruFax Series processes the fax onboard, lowering the CPU utilization of the server and improving overall system performance.

Brooktrout's TruFax Series of intelligent fax boards are available in several configurations to meet your needs. The TruFax one-channel analog, and two-channel BRI fax boards are designed for customers who have occasional faxing requirements, but still require a highly reliable and dependable solution.

The TruFax two-channel analog and four-channel BRI fax boards are recommended for use with a network fax solution. By configuring the board to send and receive faxes through separate channels, the fax solution is always prepared to receive faxes in one channel while the other channel is occupied sending faxes from the outbound job queue.



### Target Applications

- Network Fax
- Inbound Fax Routing (*BRI boards only*)
- Fax Workflow
- Production Fax

	Channels	Telephony Interface	Plug and Play	MS Shared Fax	Adaptive Call Progress	ECM	MMR
TruFax 100	1	Analog	x	x	x		
TruFax 200	2	Analog, BRI ISDN	x	x <i>analog only</i>	x		
TruFax 250	2	BRI ISDN	x		x	x	x
TruFax 400	4	BRI ISDN	x		x		
TruFax 450	4	BRI ISDN	x		x	x	x



# TruFax Series Specifications

## HARDWARE

### Analog

- 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

## ENVIRONMENTAL

- 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; 250 and 450 BRI- MH, MR and MMR compression plus ECM
- On-board image conversion
- A4 page size
- Format Conversion "on-the-fly": ASCII, TIFF-F
- Inbound fax routing capability

## 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

## CERTIFICATION (INTEROPERABILITY) APPROVALS

US/Canada, European Union, Iceland, Norway, Switzerland, Australia, Japan  
*For updated certifications and approvals, please contact Brooktrout for details.*

## OPERATING SYSTEM SUPPORT

### Analog

- Windows NT, 2000 Server, 2003 Server
- Red Hat Linux 7.0, 8.0, and Enterprise Server/Advanced Server 3.0

### BRI

- Windows NT, 2000 Server, 2003 Server and XP Professional
- SPARC Solaris 9 and 10
- Redhat Linux 7.2, 7.3, Advanced Server/Enterprise Server 3.0 and 4.0

*Other operating systems may be supported. Please contact Brooktrout for details.*

## INSTALLATION AND CONFIGURATION (BRI ONLY)

- Windows Plug and Play Compliant
- Graphical Configuration Tool

## MODELS/CONFIGURATIONS

- TruFax 100 uPCI Domestic 1 channel
- TruFax 200 uPCI Domestic 2 channel
- TruFax 100 uPCI International 1 channel
- TruFax 200 uPCI International 2 channel
- TruFax 200 BRI (2B+D), 2 channel fax board with BRI interface
- TruFax 250 BRI (2B+D), 2 channel fax board with BRI interface, MMR compression and ECM
- TruFax 400 BRI (4B+2D), 4 channel fax board with BRI interface
- TruFax 450 BRI (4B+D), 4 channel fax board with BRI interface, MMR compression and ECM

## Features and Benefits

- 14.4Kbps fax transmission speeds.
- Allows operation in both 3.3 or 5.0 volt PCI slots.
- Onboard fax protocol processing to off-load utilization from the server.
- Up to four channels per board for dedicated send and receive channel configuration.
- Windows GUI Installation, a graphical configuration tool that allows end-users to easily install and configure their TruFax BRI intelligent fax board.
- One or two onboard analog and BRI telephony interfaces.
- Adaptive call progress to ensure high connectivity rates and transmissions speeds across a wide variety of fax machines and line conditions.
- Error Correction Mode (TruFax 250 and 450 only) to ensure high first-attempt transmission rate.
- Modified Modified Read (MMR) compression algorithm (TruFax 250 and 450 only) reduces transmission time by 2 to 3 times.
- Fax-only modulations for network security from data call attempts.
- Install up to 4 boards per server. *(See TR1034 for higher density fax boards.)*

## APPLICATION PROGRAMMING INTERFACE

Brooktrout Fax and Voice (Bfv)

## WARRANTY

Five year hardware. Separate warranty terms apply to software and custom products.

Brooktrout Technology is a leading supplier of media processing, network interface, call control and signal processing products that enable the development of applications, systems and services for both the New Network™ (packet-based) and the traditional telephone (TDM) network. Our strategy is to partner with our customers and collaborate closely with them to help accelerate their delivery of new applications and services, increase their existing business, and expand into new markets.

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