

High Performance 33.6Kbps Intelligent Fax Boards

The Brooktrout Technology TR1034™ Series is a line of 33.6Kbps intelligent fax boards that offers enterprise and service provider customers high performance fax capabilities for a variety of computer-based fax applications, such as network fax, fax broadcast, unified messaging, and business process automation.

The TR1034 Series is Brooktrout's latest generation of intelligent fax boards, offering capabilities and value beyond that of the very successful TR114™ and TruFax® Series. The TR1034 delivers fast 33.6Kbps fax transmission speeds, up to 30 fax channels per board, and features an onboard T1/E1 interface—all with the performance and reliability that has made Brooktrout the world leader in intelligent fax boards.

Future features and enhancements, such as advanced voice capabilities and color fax pass-through, can be incorporated via software upgrades. This software-based flexibility continually adds value to the hardware investment over time and allows adaptation for future applications.

Unparalleled performance, carrier-grade reliability, single-slot footprint, and the flexibility to adapt to changing needs all contribute to reducing the overall cost of ownership, simplifying installation, minimizing ongoing management, and providing the highest level of dependable performance.

World-Class Fax Performance

The TR1034 Series is based on Brooktrout's renowned fax performance that made Brooktrout the leading provider of intelligent fax boards worldwide. Brooktrout's Adaptive Call Progress, Error Correction Mode, and MMR fax compression delivers unmatched levels of call completion ratios at the fastest possible connection rates across a wide variety of fax machines and line conditions.

Carrier-Grade Reliability

The TR1034 Series is a member of the TRxStream™ Series of processing platforms offering 99.999% uptime reliability to meet the needs of service providers and mission-critical enterprise networks. The TR1034 Series is backed by a 5-year warranty.

Fast 33.6Kbps V.34 Fax Transmission Speeds

The TR1034 sends and receives faxes at 33.6Kbps based on the V.34 fax standard. Not only does it send fax data over twice the speed of 14.4Kbps fax boards, it also supports V.8 fast handshaking which can cut call setup and session-management time by one-third. In the end, a fax document that takes 1 minute with a 14.4K intelligent fax board can now be sent in less than 30 seconds.

Ease of Installation and Lower Cost of Ownership

The TR1034 Series offers up to 30 channels of fax with an onboard T1/E1 interface to minimize space, lower cost of ownership, and simplify installation. The small footprint allows higher system densities for service provider installations and greater flexibility in leveraging multi-purpose servers in enterprise installations.



TARGET APPLICATIONS

- Network Fax
- Broadcast Fax
- Production Fax
- Customer Relationship Management
- Business Process Automation
- Unified Messaging
- Never Busy
- Outsourced Fax
- Fax On Demand

HARDWARE

CompactPCI Platforms

- Control CPU
 - PowerPC 8240@200MHz
- DSPs: 24 320C549@100MHz
- Voice channels: Up to 30
- Fax channels: Up to 30 V.34
- Telephony Bus:
 - CT-Bus, ECTF H.110; TDM capacity: 4,096 time slots
- Physical: One slot 6U Eurocard
 - NEBS compliant (system dependent)
 - Hot-swappable
 - Passive rear I/O
 - RJ48C T1/E1 connector (optional)
 - 2 RJ45 Ethernet connectors
- Power and Environmental
 - Base card: 22.4W
 - Mezzanine card (optional): 5.0W
 - Operating temperature: 0°C –50°C
 - Humidity: 10%–95% non-condensing

PCI Platforms

- Control CPU
 - PowerPC 8240@200MHz
- DSPs: 6 TI 320C549@100MHz
- Voice channels: Up to 30*
- Fax channels: Up to 30 (V.34)
- Telephony Bus
 - ECTF H.100; TDM capacity: 4,096 time slots
- Physical: One full-size PCI slot
 - RJ48C T1/E1 connector (optional)
 - RJ45 Ethernet connector (optional)
- Power and Environmental
 - Base card: 11.5W
 - Operating temperature: 0°C–50°C
 - Humidity: 10%–95% non-condensing

T1/E1 Interfaces & Signaling

- T1 robbed bit: E&M (wink and immediate), FXO/FXS*
- ISDN PRI: N.A. ETSI, Euro ISDN
- R2 MFC
- NFAS*
- D-channel backup*

OPERATING SYSTEMS

- Windows NT
- Windows 2000
- Solaris SPARC 2.6, 7 (2.7)
- Solaris SPARC 8 (2.8) w/cPCI automatic hot swap (PICMG 2.1)
- Solaris x86 2.6, 7 (2.7), 8 (2.8)
- UnixWare 2.1.3, 7.x, 8.0*
- Redhat Linux 6.x, 7.x

VOICE PROCESSING *

- 64Kbps G.711 μ -law and A-law PCM
- OKI ADPCM 6KHz & 8KHz sample rates
- 11KHz 8/16 bit linear .WAV, 8KHz 16 Bit linear .WAV
- IP media stream: 64Kbps G.711 μ -law and A-law PCM
- DTMF/MF/Special Information Tone (SIT) Detection
- Custom call progress tone generation
- Playback volume control, pitch corrected speed control
- Voice activated record
- Auto record level control
- Silence compression
- Talk Off/Play Off rejection
- 4 MB on-board prompt cache
- Speech play monitoring

CALL PROGRESS AND CALL CONTROL

- High call density with reduced CPU loading
- International call progress and tone detection
- Adaptive pattern recognition
- Programmable call progress detection*
- Answering machine detection*
- Call progress tone generation
- Positive voice control (human/recorded)
- CED, CNG, v.21 modem detection
- ANI/DNIS DTMF and MF detection

FAX

- ITU T.30; Group 3
- V.17, V.29, V.27ter, V.21, V.34 modulation
- Up to 33.6Kbps with auto fallback
- Normal and fine resolution: 100x200, 200x200
- Additional: 300x300, 200x400, 400x400
- MH, MR, MMR compression

FEATURES & BENEFITS

- V.34 33.6Kbps fax transmission rates for increased performance and lower cost of ownership.
- High fax port density per server to minimize space requirements. Up to four spans of fax tested in a single chassis.
- Onboard T1/E1 telephony interfaces for simpler installation and a small footprint.
- Onboard image conversion to off-load processing from the host.
- Adaptive call progress to connect with a wide variety of fax machines.
- MH, MR, MMR fax compression to reduce transmission time.
- Error Correction Mode (ECM) to provide reliable and fast transmissions.
- Super Fine Fax Resolution (406 x 391 dots per inch) for increased document readability and clearer images.

- On-board image conversion
- A4, A3 and B4 page sizes with scaling
- ASCII conversion with headers
- Image pass-through*
 - Color fax T.42 (JPEG)
 - JBIG T.85 (B/W), T.43 (color)
- Error Correction Mode (ECM)
- Line error detection/repeat good line

* Requires TR1034 SDK V3.0

Brooktrout Technology delivers innovative hardware and software platforms that enable the development of New Network™ applications, systems and services in targeted market segments including, voice over packet gateways, enhanced services platforms, wireless infrastructure, contact centers, and messaging. The Company's strategy is to collaborate with its partners to help them increase existing business, expand into new markets, and accelerate the delivery of new applications and services.



U.S. Corporate Headquarters:

Brooktrout, Inc.
250 First Avenue
Needham, MA 02494-2814
U.S.A.
Phone: +1 781 449-4100
Fax: +1 781 449-9009

European Headquarters:

Brooktrout Technology Europe, Ltd.
Hoeilaart Office Park
Vandammestraat 5, Box 2
1560 Hoeilaart, Belgium
Phone: +32 2 658-0170
Fax: +32 2 658-0180

Sales Offices:

Needham, MA
+1 877 842-3944
Salem, NH
+1 603 898-1800
Los Gatos, CA
+1 408 370-0881

Miami, FL (Latin America)
+1 305 347-5113

Toronto
+1 416 860-6240

U.K.
+44 1344 380 280

Germany
+49 89 74120 133

Australia
+61 2 8221 8811