

Brooktrout® TR1034™

Digital, Analog and IP Fax Media Processing Resources

The Brooktrout® TR1034™ Fax Board is a high-performance, intelligent fax board that offers both TDM and IP-based fax capabilities. Available in both PCI and PCI Express (PCIe), the Brooktrout® TR1034 delivers unparalleled call completion at fast connection rates across a wide variety of fax machines and line conditions.

The TR1034 sends and receives at speeds up to 33.6 kbps (V.34 fax), twice the speed of 14.4 kbps fax boards (the DID/Combo model receives faxes up to V.17 and sends up to 33.6 kbps).

The TR1034 also supports V.8 fast handshaking and advanced compression, which can cut call setup and session management time by one third. A document that can be faxed in one minute with a 14.4 kbps intelligent fax board can be sent in less than 30 seconds with the Brooktrout® TR1034.

With support for both TDM and IP, the TR1034 can provide a migration path from traditional T.30 Fax to IP Fax as companies move to VoIP networks.

On IP networks, the TR1034 utilises the field proven Brooktrout T.30 Fax protocol engine to maintain highly reliable fax transmission & reception.

The Brooktrout® TR1034 is available in 2, 4, and 8 analog channels; 2 and 4 DID/Combo channels; 2 and 4 BRI channels; 4, 8, 16, and 24 T1/PRI; and 8, 10, 16, 20, and 30 E1/ PRI channels.

FEATURES

BENEFITS

Based on V.34 fax standard	Can process faxes at twice the speed of V.17 fax boards
Analog, DID, BRI, T1/PRI, and E1/PRI interfaces	Supports a broad range of configurations
Includes Technology Expansion Capability (TEC)	Allows an increased feature set and density by installing additional software license keys as needed
Patented inbound fax routing	Supports fax servers, fax-to-email, unified messaging, fax document management, workflow and document delivery, and systems that comply with government regulations
Works with both PSTN and VoIP networks in T1/E1/PRI configurations	Allows a fax server to be a future-protected investment
Field-proven T.30 implementation	Helps to deliver faxes consistently and with high reliability
Interoperable with leading VoIP gateways and IP-PBXs	Continued attention to interoperability testing provides a broad choice of compatible devices for use with the Brooktrout® TR1034

TR1034™ SPECIFICATIONS

HARDWARE

T1/E1

CPU: PCI: PowerPC 8240 @ 200 MHz; PCIe: PowerPC 8247 @ 300 MHz
DSPs: PCI: 6 TI C549 (600 MIPS total); PCIe: 1 TMS 320VC5441 (532 MIPS)
Network interface: One T1/E1 interface (RJ-48C), DSX-1 (requires CSU)
Ethernet interface: One 10/100 MB interface
Signaling
— ISDN PRI: N.A., Euro ISDN
— T1 CAS: RBS E&M (wink and immediate)
— E1 CAS: Configurable MFC R2 support
— SIP (RFC 3261)
— H.323 (version 4)
Media channels: Up to 30 V.34 fax and voice
Telephony Bus: PCI: ECTF H.100; MVIP-90, (via bus adapter); PCIe: ECTF H.100
Physical: Full-size 4.2 in. x 12.283 in.
Server Bus: PCI: 33 MHz PCI 2.2 (3.3/5 V signaling); PCIe: x4 lane PCIe 1.0a
Power: PCI: 17 W max; PCIe: 8 W

Analog

CPU: PowerPC 8241 @ 200 MHz
DSPs: 2 TI C5402 (122 MIPS total)
Media channels: Up to 8 V.34 fax and voice
Telephone interface and signaling: RJ-11, RJ-45-to-(4) RJ-11 interface cable supplied
Physical: Full-size 4.2 in. x 12.283 in.; Half-size 4.376 in. x 6.6 in.
Server Bus: PCI: 33 MHz PCI 2.2 (3.3/5 V signaling); PCIe: x4 lane PCIe 1.0a
Power: 6 W

BRI

CPU: PowerPC 8241 @ 200 MHz
DSP: TI C5402 (61 MIPS total)
Media channels: Up to 4 V.34 fax and voice
Network interface: 1 or 2 BRI
Signaling: ISDN BRI, Euro, Japan
Physical: Half-size 33 MHz PCI 2.2 (3.3/5 V signaling), 4.2 in. x 6.875 in. Power: 5 W

DID/Combo

CPU: PowerPC 8241 @ 200 MHz
DSP: 1 TI C5402 (61 MIPS total)
Media channels: Up to 4 V.34 fax and voice
— DID V.17 inbound and V.34 outbound
— Loop start V.34 inbound and V.34 outbound
Telephony interface and signaling: RJ-11 (RJ-45 to RJ-11 interface cable supplied) Physical: Half-size 4.2 in. x 6.600 in.
Server Bus: PCI: 33 MHz PCI 2.2 (3.3/5 V signaling); PCIe: x4 lane PCIe 1.0a Power: 15 W
No External Power Supply Required

FAX PROCESSING

ITU T.30; ITU T.38; Group 3 V.34, V.17, V.23, V.29, V.27ter, V.21 modulation Up to 33.6 kbps with auto fallback
Normal and fine resolution: 100x200, 200x200
Additional Resolutions
— 200x400, 300x300, 300x600, 400x800, 400x400, 600x600, 600x1200, 1200x1200 — 100x100, 300x300, 400x400, 600x600, 1200x1200
Color/Grayscale pass-through
MH, MR, MMR compression
Onboard image conversion
A4, A3, and B4 page sizes with scaling
A4 and B4 TIFF F file widths
Enhanced ASCII conversion support 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

CALL PROGRESS AND CALL CONTROL

International call progress and tone detection
Programmable tone and cadence detection/generation
CED, CNG, v.21 modem detection
ANI/DNIS, DID, DTMF, and MF detection

OPERATING SYSTEM SUPPORT

Windows®; Linux. Details at <http://www.dialogic.com/systemreleases>

INSTALLATION AND CONFIGURATION

Windows® Plug and Play Compliant
Graphical Configuration Tool

ENVIRONMENTAL

Operating temperature: 0°C - 50°C
Humidity: 10% - 95% non-condensing

ENVIRONMENTAL COMPLIANCE

This electronic equipment complies with the European Union Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, Directive 2002/95/EC.

Dialogic
Application Partner
Innovator



MESSAGEmanager
Solutions

Level 8, 9 Help Street, Chatswood, NSW 2067, Australia
www.mmanager.com info@mmanager.com

AUSTRALIA Tel: +61 2 8448 8800 Fax: +61 2 8448 8811
UNITED KINGDOM Tel: +44 1727 730022 Fax: +44 1727 730023
UNITED KINGDOM Toll Free: 0800 169 8226
NEW ZEALAND Toll Free: 0800 445 308
CANADA Toll Free: 1877 3701 261
USA Toll Free: 1877 8841 664