Dialogic® Brooktrout® TruFax® Fax Boards

The Dialogic® Brooktrout® TruFax® Fax Boards offer small businesses and departmental workgroups dependable network fax capabilities. These intelligent fax boards support a variety of applications, such as fax server and workflow fax, and offer enterprise-level quality and performance to small businesses.

Products Discussed in This Datasheet

- Dialogic® Brooktrout® TruFax® 100 Fax Board (Analog)
- Dialogic® Brooktrout® TruFax® 200 Fax Board (Analog and BRI)
- Dialogic® Brooktrout® TruFax® 250 Fax Board (BRI)
- Dialogic® Brooktrout® TruFax® 400 Fax Board (BRI)
- Dialogic® Brooktrout® TruFax® 450 Fax Board (BRI)

Dialogic delivers time-tested, industry-leading fax technology, offering a broad range of fax and fax over IP products, which are supported by more than 50 software partners and approved for use in more than 40 countries (as of 2010).

Features	Benefits
Leverages advanced fax algorithms and provides dedicated fax-processing power	Offers performance and reliability benefits in comparison to Class 1 and Class 2 fax modems and multipurpose telephony adapters
Fax-only modulation to drop all non-T.30 packets	Eliminates possible security issues related to non-T.30 packets
Supports analog and BRI configurations	Allows use in networks around the world
Field-proven T.30 implementation	Helps to deliver faxes consistently and with high reliability
Continued attention to interoperability testing with leading PSTN gateways and PBXs	Provides a broad choice of compatible devices for use with Brooktrout Trufax Fax Boards
Up to four Brooktrout Trufax Fax Boards can operate concurrently in a single server	Enables easy scalability and flexibility to address an organization's communications needs in changing environments, such as VoIP
Error Correction Mode (ECM) in TruFax 250 BRI and TruFax 450 BRI models	Allows high first-attempt transmission rates in specific models
Modified Modified Read (MMR) compression algorithm in TruFax 250 BRI and TruFax 450 BRI models	Can reduce transmission time from 200% to 300% in specific models

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Available in several configurations, Brooktrout TruFax Fax Boards provide up to four channels per board for dedicated send-and-receive-channel configurations. One-channel analog and two-channel BRI configurations are suitable for customers who have occasional faxing needs, but still require a very reliable fax solution. The two-channel analog and four-channel BRI configurations are generally used in network fax solutions. If Brooktrout TruFax Fax Boards are configured to send and receive faxes through separate channels, the fax solution can receive faxes in one channel and send faxes from the outbound job queue in another channel.

Table 1 lists the Brooktrout TruFax Fax Board models and some of their features. The ISDN telephony interface can be used in Europe and Japan.

Models	Channels	Interface	Adaptive Call Progress	ECM	MMR
TruFax 100	1	Analog	x		
TruFax 200	2	Analog	x		
Trufax 200 BRI	2	BRI ISDN	x		
TruFax 250 BRI	2	BRI ISDN	x	x	x
TruFax 400 BRI	4	BRI ISDN	x		
TruFax 450 BRI	4	BRI ISDN	x	x	x

Table 1. Models and Features of Dialogic® Brooktrout® TruFax® Fax Boards

Dialogic® Brooktrout® TruFax® Fax Boards

Technical Specifications

	TruFax 100 Analog	TruFax 200 Analog	TruFax 200 BRI	TruFax 250 BRI	TruFax 400 BRI	TruFax 450 BRI
CPU	200 MHz					
DSP	One (61 MIPS)					
Network interface	1 analog loop start	2 analog loop start	Single Euro BRI		Dual Euro BRI	
Media channels	1	2	2		4	
Signaling	FCC part 68 and TBR21		ISDN BRI, Euro, Japan			
Physical	Half-size 6.6 in. long x 4.376 in. wide					
Server bus	PCI: 33 MHz PCI 2.2 universal card (3.3/5 V signaling) PCIe: x4, x8, or x16 slots					
Power	PCI: 5 W, both +3.3 V and 5 V power supply required PCIe: 2 Channels, 12 W					
System density	Up to 4 boards per server **Note:** Dialogic® Brooktrout® TruFax Fax Boards are not compatible with Dialogic® Brooktrout® TR1034 Fax Boards in the same chassis.					
Environmental	Temperature: 0° to 50°C operational Humidity: 10% to 95% (non-condensing)					
Fax modulation	ITU T.30 Group 3 V.17, V.27, V.29 with auto fallback					
Image format compression	MH, MR			MH, MR, MMR	MH, MR	MH, MR, MMR
Page format	A4 with onboard image conversion					
Error Correction Mode (ECM)	no	no	no	yes	no	yes
Resolution	100 x 200, 200 x 200					
Format conversion "on-the-fly"	ASCII, TIFF-F call progress and call control					
Dialing and call progress	• Onboard DTMF generation and detection • Adaptive (SIT detection included), pulse, and DTMF • Inbound fax routing capability • 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	Windows®, Linux, Solaris. Details are in the *Guide to Dialogic® System Software, Operating Systems, and Dialogic® Products* application note.					
Installation and Configuration	Windows® Plug and Play					
Application Programming Interface	Dialogic® Brooktrout® Bfv API					

Dialogic® Brooktrout® TruFax® Fax Boards

Technical Specifications *(continued)*

	TruFax 100 Analog	TruFax 200 Analog	TruFax 200 BRI	TruFax 250 BRI	TruFax 400 BRI	TruFax 450 BRI
Environmental Compliance	Complies with the European Union Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, Directive 2002/95/EC					
Estimated MTBF Per Telcordia Method 1	PCI: 741,750 hours PCIe: 671,750 hours		PCI: 857,300 hours PCIe: 815,600 hours			
Hazardous Substances	RoHS compliance information at http://www.dialogic.com/rohs					
Warranty	http://www.dialogic.com/warranties					
Telecom Approvals	http://www.dialogic.com/declarations/default.htm					

Ordering Information

The following table provides ordering information for Dialogic® Brooktrout® TruFax Fax Board.

Product Code	Order Code	Description
Trufax 100-R PCI HALF	901-004-07	1 Channel Loop Start, half-size Universal PCI
Trufax 100-R PCI UK HALF	901-004-09	1 Channel Loop Start, half-size Universal PCI, for UK
Trufax 100E HALF	901-013-08	1 Channel Loop Start, half-size PCI Express
Trufax 100E HALF UK	901-013-09	1 Channel Loop Start, half-size PCI Express, for UK
Trufax 200-R PCI HALF	901-004-08	2 Channel Loop Start, half-size Universal PCI
Trufax 200-R PCI UK HALF	901-004-10	2 Channel Loop Start, half-size Universal PCI, for UK
Trufax 200E HALF	901-013-10	2 Channel Loop Start; half-size PCI Express
Trufax 200E HALF UK	901-013-11	2 Channel Loop Start, half-size PCI Express, for UK
TruFax 200-R BRI (2B+D)	901-003-07	2 Channel, Single Euro BRI
TruFax 200E BRI (2B+D)	901-012-07	2 Channel, Single Euro BRI, RoHS, PCI Express
TruFax 250-R BRI (2B+D)	901-003-08	2 Channel, Single Euro BRI with MMR and ECM
TruFax 250E BRI (2B+D)	901-012-08	2 Channel, Single Euro BRI with MMR and ECM, RoHS, PCI Express
TruFax 400-R BRI (4B+2D)	901-003-09	4 Channel, Dual Euro BRI
TruFax 400E BRI (4B+2D)	901-012-09	4 Channel, Dual Euro BRI, RoHS, PCI Express
TruFax 450-R BRI (4B+2D)	901-003-10	4 Channel, Dual Euro BRI with MMR and ECM
TruFax 450E BRI (4B+2D)	901-012-10	4 Channel, Dual Euro BRI with MMR and ECM, RoHS, PCI Express

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