

Release Note

for DataFire Octo



Operating System:	Windows NT		Windows 2000		NetWare
Version:	v. 4.1.1		v. 4.2.0		v. 4.1.1
Date:	November, 1999		March, 2000		November, 1999
Product/Part:	40001665 E		40002074 B		40001929 E

Features

Note:

Unless otherwise mentioned, all features work with the above mentioned operating systems.

Connectivity:

- ISA-Bus with EISA Features (Slot I/O and Shared INT), S₀ basic hardware, S₀ octo hardware (FPGA V3.0 support with #10 – preliminary version)
- CAPI V1.1 Profile A / CAPIplus V 1.5 / CAPI V2.0

Network protocols:

- DSS1 (Euro-ISDN), 1TR6,
- Q.931, ECMA Q.SIG, VN2, VN3, Cornet-N, Cornet-T, 5ESS, NI-1, DMS-100, TS013 (TPH 1962), DSS1-NL, INS-64, DSS1-TK (used for switches, that do not support „sending complete“ e.g. HICOMI)

Line support:

- Point to Multipoint (standard),
- Point to Point (DDI with DSS1),
- semipermanent ("vorbestellte Dauerwählverbindung") (only in 1TR6)

Approvals:

- CE Europe

General fax and modem limitation

Fax:

- 1-8 channels with min 2400 bit/s and max 14400 bit/s with all Fax/Modem modules
- Fax data reception with Fax/Modem modules version 1.4 (DPL) modes with transfer rate up to 9600 bit/s are supported

Modem:

- 1-8 channels with min 2400 bit/s and max 33600 bit/s
- Only with Fax/Modem modules version 2.1 with a 33.6 kbit datapump.
- If four modem connections with 33600 bit/s are established, the next modem connection could have less than 33600 bit/s data rate
- A maximum of two modem connections can use the V.42bis protocol simultaneously

The amount of channels and maximum data rate depends on the used FaxModem modules.

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Extended features:

- **V.42bis** compression up to 8 channels
- **ITK** compression up to 8 channels
- **ESS** Extended Security Service
- **Watchdog** check on board (connection clearing, if the PC did not answer)

CAPI-1.1 options:

- **FaxG3** Document format: ASCII & SFF
- **Fax-polling** server and client
- **DTMF** recognition (including fax tone recognition)
- **X.25** (ISO 8208) and **T.90** with multiple logical connection useable for Euro File Transfer and FaxG4 in accordance to ETSI spec.
- **DDI Support** (**D**irect **D**ialling-**I**n)("Durchwahlfähigkeit"(NT1))
- **X.25** PLP D-Channel
- **MVIP** support
- **MSN**<->**EAZ** Mapping

CAP1.1 ext. Features

- **PPP** following RFC 1548, Basic functionality, IP&IPX
- **X.31 B-Channel** Case A (no bitrateadaption) & Case B (only for use with certified PBXs)
- **X.31 D-Channel** Case B (only for use with certified PBXs)
- **Modem**
- **MLP** channel bundling via software

CAP1.1 OS support:

- NetWare, WinNT (with special handling), Windows 2000 (with special handling), SCO (with special handling)

CAP2.0 options:

B1-Protocol

- 64 Kbit/s HDLC framing
- 64 Kbit/s bit transparent
- T.30 fax
- 64 Kbit/s inverted with HDLC framing
- modem with full negotiation
- modem asynchron
- modem synchron with HDLC framing

B2-Protocol

- ISO 7776 (X.75 SLP)
- transparent
- LAPD according Q.921 for D-Channel X.25 (X.31)
- T.30 fax
- modem with full negotiation

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B3-Protocol

- transparent
- T.90NL
- ISO 8208 (X.25 DTE-DTE)
- T.30 fax
- T.30 fax (with extensions)
- Modem

CAPI2.0 ext. Features:

- MVIP support
- support of HLC/LLC/BC
- support of SEL_B_PROTOCOL
- support of subaddressing
- support of Additional Info (partly)
- DDI support
- DTMF support
- support of INFO_REQ
- CONNECT_B3_T90_ACTIVE messages
- information of connected channel
- early B3 connect
- support of Supplementary Services HOLD/CF/CD/ECT
- change of B channel direction
- support of V.42 and V.42bis for modem connections

CAPI2.0 OS support:

- NetWare, Win95, WinNT (with special handling), Windows 2000, SCO

Memory required:

- 4 MB

WAN Miniport: (only Windows NT and Windows 2000)

Transmission protocols

- HDLC transparent (standard PPP)
 - X.75 (PPP over X.75)
 - V.110
 - V.120 (not supported by firmware)
 - Modem (not supported by firmware)
 - Modem via DigitalModem or MultiModem
- Indication of own MSN on outgoing calls
 - Call acceptance on particular MSN (Accepted MSN)
 - D-Channel callback
 - DDI
 - Prepared for Digi SecurId RAS-extension (Client and Server)
 - UDD support