

- ComC Main Software ■ KOM-KIT II
- Ethernet ■ Token Ring ■ ETHERNET-KIT II
- ETHERNET-KIT III ■ X.21 ■ V.35

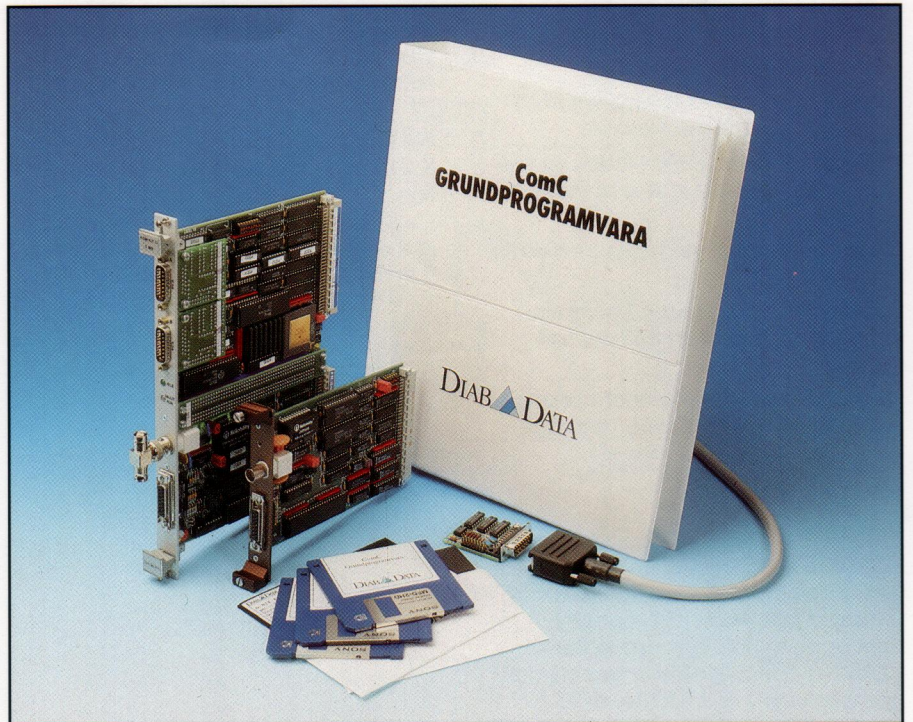
The ComC Main Software is Diab Data's platform for LAN, WAN and synchronous communication in a DIAB computer system.

The software is conceived for use with KOM-KIT II, but may also be run directly under the D-NIX operating system whereby the internal ports of the computer support WAN and synchronous communication. In this case, LAN communication is performed via ETHERNET-KIT II/III.

KOM-KIT II consists of a VME based communication board with on-board processor, memory and modem cable. The KOM-KIT II should be used in high performance communication solutions where simultaneous multi-sessions are required.

ETHERNET-KIT II is a hardware kit for Ethernet connections. This kit is designed for installation in DIAB1320, DIAB1420, DIAB2420 and DS90-30S.

ETHERNET-KIT III is a hardware kit for DIAB1130.



ComC

The ComC Main Software is the basis for LAN, WAN and synchronous communication in a DIAB computer. The software is designed for use together with KOM-KIT II, but also has support for other hardware configurations, such as ETHERNET-KIT II and III. The software offers WAN and synchronous communication via KOM-KIT II, or through the computer's internal ports. For synchronous communication all that has to be added is the software for the protocol in question.

Software

The ComC Main Software is based on the defacto standard TCP/IP and supports functions like **Nameserver** according to BIND 4.8. The name server ties symbolic names to the IP addresses in the network, thereby simplifying connections, as the symbolic name is given for the desired node (machine). Support is also available for 'subnetting' and statistical routing of the network traffic.

The ComC Main Software has a modular structure. When used with the

software, KOM-KIT II takes care of all heavy communication processing. Functions located in KOM-KIT II are synchronous communication controllers and telnet and rlogin daemons, just to mention a few. By locating these daemons in the KOM-KIT II, the computer's main processor won't be loaded by this type of traffic and a terminal session entering the computer through a LAN won't load the system more than a regular serial connection.

The following applications are included with the ComC Main Software.:

telnet - Virtual terminal. Offers terminal connection between computers through LAN and WAN.

ftp - File transfer between computers. Offers transparent file transfer between computers.

smtip - Protocol for electronic mail transfer between computers in a network.

tftp - File transfer between computers. Offers transparent file transfer between computers. Is normally used for file transfer when booting diskless workstations and terminal servers.

DIAB DATA

rlogin - Remote login in another computer. Has facilities to automatically launch applications in another computer.

remsh - Starting command interpreter in another computer in the network.

rcp - Remote file copy between computers in a network.

rexec - Execution of a program in another computer of the network.

ruptime - Provides information on network resources and status of these resources.

rwho - Information on users on the network with login timing.

comconf - A menu based program enabling configuration and maintenance.

bootp - Server used to boot workstations supporting the 'bootp' protocol.

Hardware

KOM-KIT II

KOM-KIT II consists of an active VME based communication board featuring on-board processor and memory. A modem cable is also included in the kit. KOM-KIT II is available in two memory versions with 1 or 4 MByte. KOM-KIT II comes with two V.24 ports as standard. These, may, however, be replaced with X.21 or V.35 ports.

KOM-KIT II can be supplied with or without an Ethernet option.

KOM-KIT II is conceived for applications where high performance and many simultaneous sessions are of imperative importance.

Ethernet

Ethernet option.

Designed to be installed on KOM-KIT II. The kit contains one BNC T connector. Connection is made to an internal Thin Wire Ethernet transceiver or to an external transceiver with an AUI connector.

TokenRing

TokenRing option.

Designed for connecting the computer to a Token Ring LAN according to ANSI/IEE 802.5. The TokenRing option is devised for Token Ring LANs with a transfer speed of 4 Mbit/s. The option requires one free VME slot and the KOM-KIT II.

ETHERNET-KIT II

Hardware kit for connecting DS90-30S, DIAB1420 and DIAB 1320 to Ethernet.

The ETHERNET-KIT II consists of a set of ICs which are to be installed on the computer's mother board. A BNC T-connector is also included. Connection is made to an internal Thin Wire Ethernet transceiver or to an external transceiver with an AUI connector.

ETHERNET-KIT III

Hardware kit for connecting DIAB1130 to Ethernet.

ETHERNET-KIT III is an interface board according to the DataBoard standard. A BNC T-connector is also included. Connection is made to an internal Thin Ethernet transceiver or to an external transceiver with an AUI connector.

X.21

X.21 option for use in X.21 communication.

The X.21 option is installed instead of the standard V.24 interface board. A 5 m modem cable is included.

The X.21 option fits KOM-KIT II,

DIAB 1130, DIAB1420, DIAB2420 and DS90-30S.

V.35

The V.35 option is used in high speed communication, up to 64 kbps/s.

The V.35 option is installed instead of the standard V.24 interface board. A 5 m modem cable is included.

The V.35 option fits KOM-KIT II.

Technical data KOM-KIT II

Hardware

- Motorola 68020 processor, 16 MHz
- 1 or 4 Mbyte memory
- Internal 32 bitars bus
- Boot PROM 32 KByte (64 KByte)
- Mail box 4 KByte
- Parameter memory NVRAM
- VME-bus as per ANSI/IEEE
- Std 1014-1987
- Watchdog
- Zilog Z85C30 for serial channels
- Power consumption 15W (KOM-KIT II incl Ethernet option)
- Two V.24 ports as per V.24, V.28, ISO 2110 (SS 63 62 30)
- Modem cable 3 m

Ethernet option KOM-KIT II

- Integrated transceiver for 10BASE2 (Thin Wire Ethernet)
- ANSI/IEEE 802.3a-1988. (ISO 8802-3:1989, ISO 8802-3)
- AUI (Attachement Unit Interface) - connection as per ANSI/IEEE802.3 - 1985.
- Intel 82586 LAN Controller
- Parameter memory NVRAM

TokenRing option

- TokenRing board as per ANSI/IEEE std 1014-1987
- Complies ANSI/IEEE 802.5 and SS/ISO 8802-5
- Based on the TMS 380 chips
- Full duplex DMA
- 16 KB buffer memory
- Transfer rate 4 Mbit/s
- Power consumption 22 W
- Interface: ProNET-4, 9-pol D-sub

V.24 interface

- The connection complies with CCITT V.24, V.28 and ISO2110 (SS 63 62 30). KOM-KIT II comes with two V.24 ports as standard.

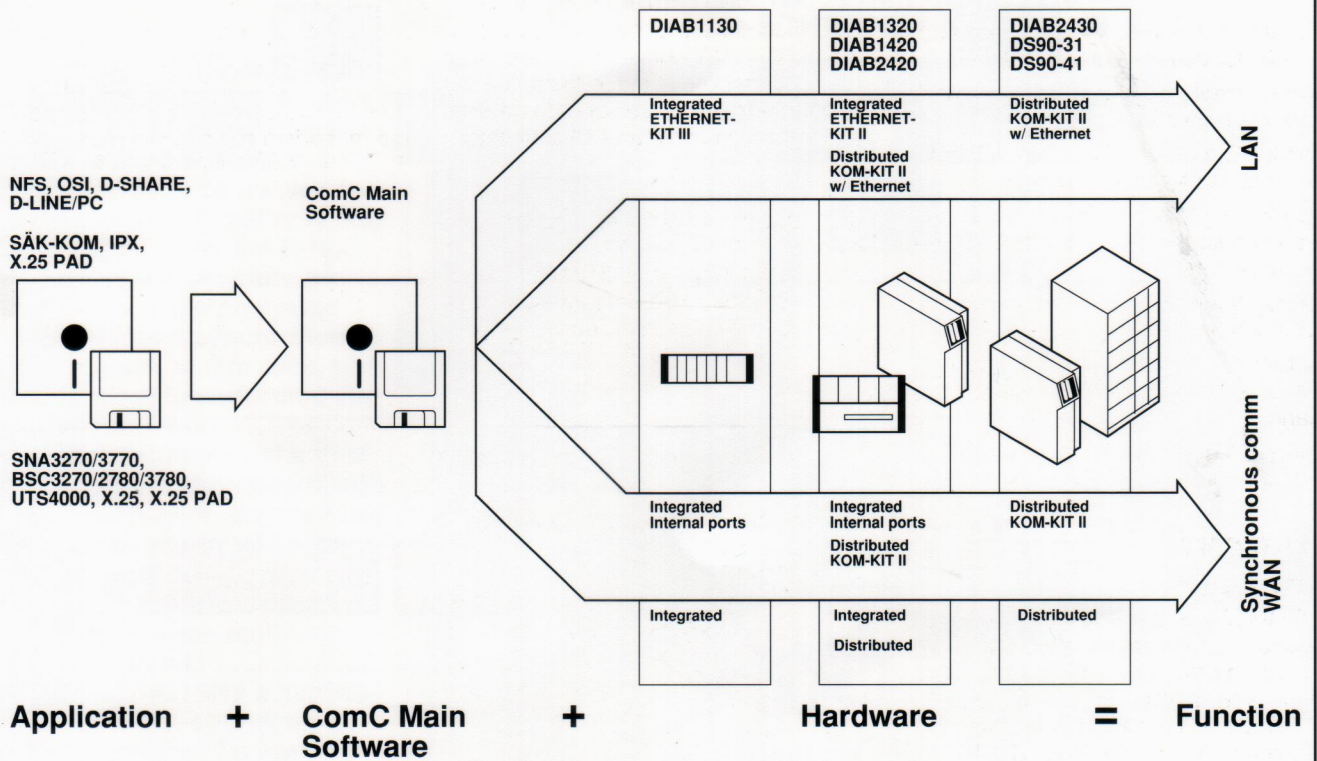
X.21 option

- X.21 interface
- The connection complies with X.21, X.24, X.27 and ISO 4903 (SS 63 62 31)
- Modem cable 5 m

V.35 option

- V.35 interface
- The connection complies with X.21, X.24, X.27 and ISO 4903 (SS 63 62 31)
- Modem cable 5 m

ComC structure

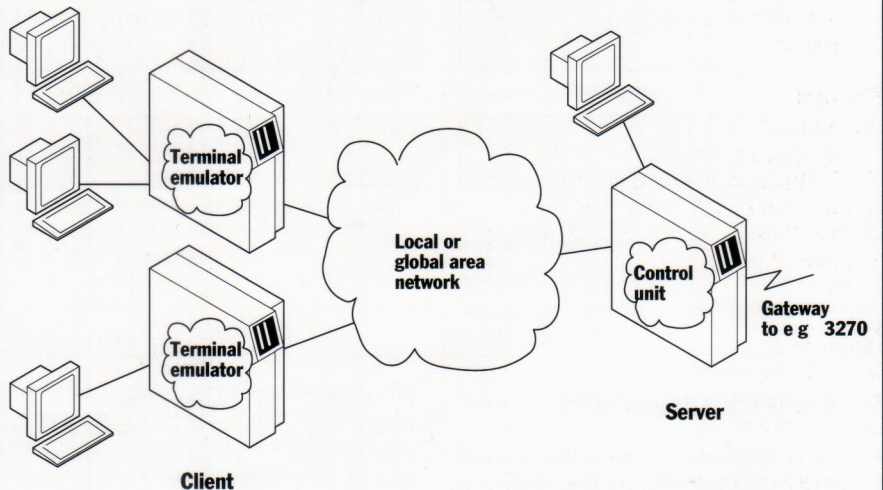


Technical data ETHERNET-KIT II

- Integrated transceiver for 10BASE2 (Thin Wire Ethernet)
- Complies with ANSI/IEEE802.3a-1988 (ISO8802-3:1989, SS-8802-3)
- AUI connection as per ANSI/IEEE 802.3-1985
- Intel 82586 LAN Controller
- Integrated on mother board

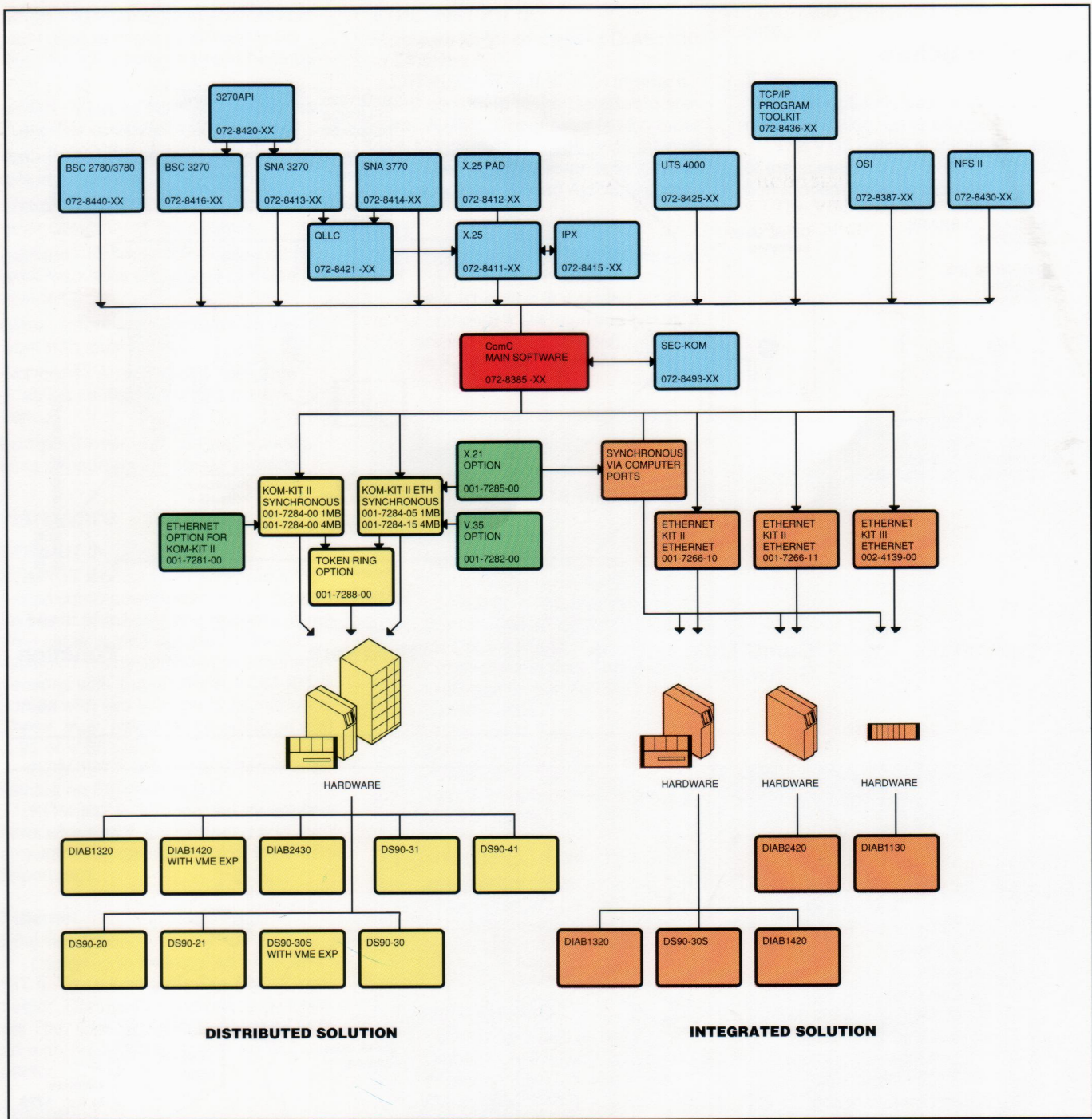
Technical data ETHERNET-KIT III

- Integrated transceiver for 10BASE2 (Thin Wire Ethernet)
- Complies with ANSI/IEEE802.3a-1988 (ISO8802-3:1989, SS-8802-3)
- AUI connection as per ANSI/IEEE 802.3-1985
- Intel 82586 LAN Controller
- 64 kByte twin port memory
- Power consumption 7 W
- DataBoard bus



ComC in distributed systems

The ComC concept is well suited for distributed systems where one, dedicated computer manages external communication in a Client/Server pattern.



System requirements

KOM-KIT II works with computer system DS90-20 or later with one free VME slot. The operating system should be D-NIX 5.3 rev. 1.3.1 or later. The TokenRing option for KOM-KIT II requires one extra free VME slot.

ETHERNET-KIT II works with model DS90-30S, DIAB2420, DIAB1420, DIAB1320 or later. The operating system should be D-NIX 5.3 rev 1.4.5 or later.

ETHERNET-KIT III works with DIAB1130 with one free DataBoard expansion slot. The operating system should be D-NIX 5.3 rev 1.4.5 or later.

For further configuration, see ComC configuration guide.

Ordering information

072-8385-XX	ComC Main Software
001-7284-00	KOM-KIT II 1 MB
001-7284-10	KOM-KIT II 4 MB
001-7284-05	KOM-KIT II 1 MB incl Ethernet
001-7284-15	KOM-KIT II 4 MB incl Ethernet
001-7266-10	ETHERNET-KIT II
002-4193-00	ETHERNET-KIT III
001-7281-00	Ethernet option for

001-7285-00	X.21 option
001-7282-00	V.35 option
002-5233-10	V.24 option (2 are included with KOM-KIT II hardware)
001-7288-00	TokenRing option, requires one VME slot

For further ordering information, see ComC configuration guide.

The information herein is correct at the time of printing. However, the specifications might be changed in the light of the rapid development in this field.