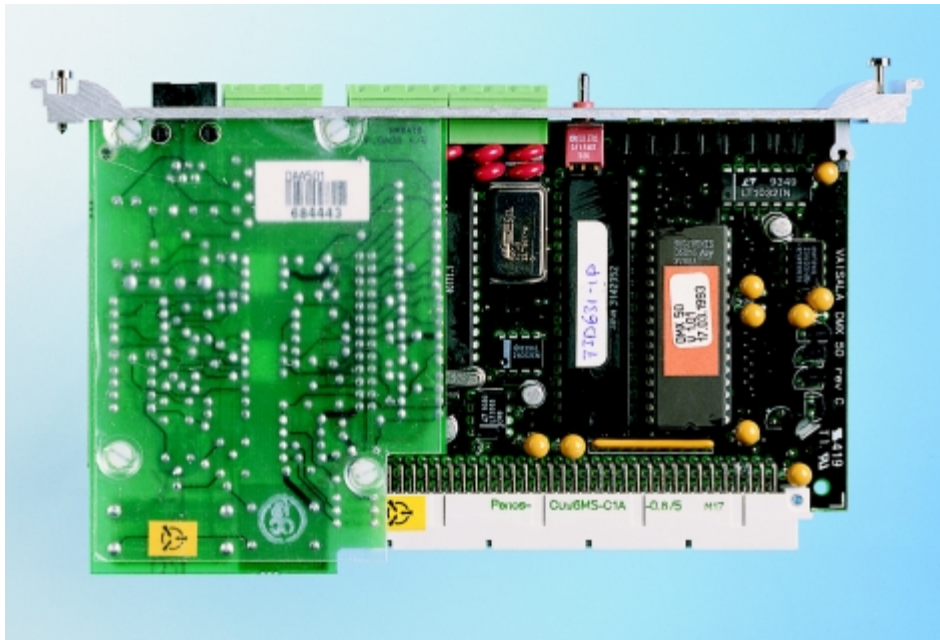


DMX55 Modem Board



The DMX55 is a multi-standard modem board designed especially for the MILOS 520 Automatic Data Collection and Processing System. The modem board is fit for communication under extreme environmental conditions. DMX55 has auto-answer/auto-dial modes as well as MNP-2-5 data compression and error correction. DMX55 supports the extended AT command set.

With DMX55 the user can operate the MILOS 520 via public switched telephone lines for:

- Requesting and receiving data, reports and alarms
- Downloading new configuration parameter files
- Having full access to the MILOS 520 command set, including remote maintenance,

also for the devices connected to MILOS 520's serial ports (full transparency).

Using the 'Your Way' System Configuration program DMX55 can be configured to call automatically to one or multiple numbers for data and report distribution. Also alternative call sequences can be configured to overcome communication "jams".

The DMX55 modem gives the user the optimum combination of superior performance, extensive features, full compatibility of communication standards, rugged construction, low power consumption and extended environmental operating range.

TECHNICAL DATA

FEATURES

Extended AT 2400 command set
Autodialling and autoanswering features
Pulse and DTMF dialling

PROCESSOR

Intel 80C32 custom version
Clock 22 MHz
SRAM 32 kB
Code EPROM or FLASH 128 kB or 256 kB
EEPROM for AT parameters 8 kB

MODEM

Signal processor chip
Silicon Systems SSI 73K224L
Modem standards supplied; can be used with any asynchronous modem with the following compatibility:
Bits per second Standard
300 CCITT V.21 or Bell 103
1200 CCITT V.22 or Bell 212A
2400 V.22bis
Encoding 300 FSK/1200 DPSK/2400 QAM
Compression and V.42, V.42bis
error correction standards MNP 2-5
Adaptive equalization for optimum performance over all lines.

Programmable 16 dB, 1 dB steps
transmit attenuation by S-register setting
Programmable 16 dB, 1 dB step
DTMF tone attenuation by S-register setting
DTMF, answer and guard tone generations
DTMF tone detection
Test modes available ALB, DL, RDL
upon an AT command

CURRENT CONSUMPTION

Typical current consumption with no RS-port output load:

	12V	+5V	-5V
Power down state	0 mA	7 mA	2 mA
Stand-by, idle	6 mA	60 mA	2 mA
On-line, active	30 mA	130 mA	2 mA

ENVIRONMENTAL

Operating temperature range -50°C...+70°C
Storage temperature range -50°C...+70°C
Humidity 0...100 % RH,
non-condensing

DMX50 has passed the following tests by Research Institute of the Helsinki Telephone Company: TPL 01, TPL 03, EN 60950, and EN 41003.

Full test reports are available upon request.