



# PTC-Ilex

Getting started with  
DSP-Shortwave-  
Communication  
at low cost!



**SCS**  
the pactor creators

# The PTC-Ilex

The Multimode-Controller for PACTOR®-III\*, PACTOR®-II, PACTOR®-I, AMTOR, NAVTEX, RTTY, CW, FAX, SSTV, AUDIO-Filter, Packet-Radio and PSK31



The PTCIlex is the best value for money, and the most robust beginners model for all digital operating modes via standard amateur and marine radio equipment. It is thus the worlds most widely used modem for professional and sport shipping. With the PTC-Ilex, shortwave equipment may be used for the transmission of E-mails and for the reception of weather forecasts and NAVTEX. Together with the usually available GPS receiver, the PTC-Ilex can be used for the automatic transmission of position reports. In addition to the strong aluminium case, the thorough filtering of all inputs and outputs ensures interference free operation, even under difficult conditions.

## The Hardware

- One single connector to the HF/VHF transceiver for all modes.
- Simultaneous standby in PACTOR and AMTOR.
- Special JVCOMM32-Modus for optimum co-operation with JVCOMM32.
- Packet-Radio with 300, R600, 1200, 9600 and 19200 baud with built-in DSP.
- With two high performance processors from Freescale, the PTC-Ilex achieves outstanding flexibility.
- Sophisticated signal processing and analyzing, maintains a stable HF link even during difficult propagation conditions.
- Temperature compensated crystal oscillator.
- Tuning bar display with 15 LED lamps.
- 2 MB of static RAM, battery buffered.
- Automatic baudrate detection to the terminal between 2400 and 115200 baud.
- Electronic (silicon) serial number.
- Noise free HF reception by use of HF suitable construction, 6 layer multilayer board and filtering of all inputs and outputs.
- Compact SMD assembly.
- Freely programmable Mark- and Space tones.
- Flash-ROM update via the serial port.
- Dimensions: 125 W x 43 H x 183 D mm.  
1 11/16 x 4 7/8 x 7 3/16 inches.
- Weight: 560 g.
- Power Supply: +10 to +20 V DC, 300 mA max. Reverse polarity protected. Fuse selfresetting.

## PACTOR®-II

- Max. 1200 Bit/s, incl. data compression.
- Automatic adaption to the channel quality in 4 speed levels.
- Bandwidth 500 Hz.
- Use of the most modern transfer mode technics: convolutional coding, Viterbi-decoder, soft-decision and Memory ARQ allows error free data transfers even with inaudible signals.
- Automatic frequency correction of  $\pm 80$  Hz.
- Automatic adaption of the radio's transmit power to the channel quality is possible.

## PACTOR-III®\*

Like PACTOR®-II, but:

- max. 5200 Bit/s, incl. data compression.
- Automatic adaption to the channel quality in 6 speed levels.
- Bandwidth 2400 Hz.



### Profile of a PACTOR user:

Australian Yacht 'NEW MOON'  
Leonie Wald, VJD3515

ICOM M710, remote control,  
PTC-Ilex, PACTOR®III, SP: Sailmail,  
Weather-Fax, Weather Grib Files.

"Since we have our email with the PTC-Ilex a new feeling of freedom has reached us. Also on lonesome places and long passages we are in contact with our family at low cost."

## Robust HF-Packet

- Newly developed very robust modulation HF-Packet-Radio and APRS.
- Max. 600 Bit/s.
- Automatic frequency correction of  $\pm 250$  Hz.

## APRS

- Fully automatic APRS-Beacon.

Includes installation manual, CD-ROM, cables and power plug.

\*PACTOR®-III – Optional over license code.

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