

SCS PTC-IIe Radio Modem HF / VHF / UHF

Fast PACTOR II email via SSB, upgradable to PACTOR III

Send email, transfer files, real-time data links. The PTC-IIe modem from Special Communications Systems is an affordable PTC data interface between your PC and radio equipment. From the German developers of the PACTOR I and PACTOR II protocol, comes the IIe with robust PACTOR digital modes built in. The PTC-IIe will maintain links in conditions with signal to noise ratios of minus 18 dB. That means data transfer with absolutely inaudible signals. The IIe is less expensive than it's full featured brother the PTC-IIpro without sacrificing performance.



The PTC-IIe is fully forward compatible with PACTOR III development.



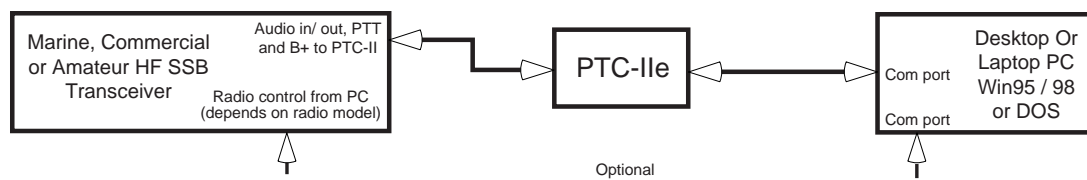
front



back

Powered by a powerful Motorola CPU and DSP (digital signal processor), the PTC-IIe stands out as superior technology for HF radio data transfers. Packet radio operation for VHF and UHF up to 9600 baud rates are built into the IIe with no additional hardware to add.

Simple installation with compatible radios from Icom, Kenwood, Yaesu, SGC, SEA, Furuno, R&S and others. Use the PTC-IIe with commercial stations WLO, SailMail, MarineNet and others world wide, as well as the international network of amateur radio operators (MBOs) that support PACTOR modes. PC software for Windows or DOS.



Commercial • Government • Amateur • Marine

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TECHNICAL

Standard Features of the PTC-IIe Hardware

VHF/UHF Packet communications capable, built in. No extra modules to buy.

Upgradable to PACTOR III development via onboard flash memory.

32 bit system with Motorola RISC 68360 processor at 25 MHz. 16 bit Motorola DSP 56156 at 60 MHz (30 MIPs).

Firmware stored in flash memory. Easy update via serial RS-232 link to a PC. Modem tones (mark-space) and shift programmable in 1 Hz steps within all modes.

Equipped for FAX (AM, FM, Meteosat), SSTV, CW operation with reception and transmission and full compatibility to nearly all modern PC programs.

Built in mailbox with comprehensive features. Common access from all modes (PACTOR I, II, III, AMTOR, PACKET).

Battery backup for the clock and CMOS RAM. No mail loss when switched off.

Mail display at the front panel shows the operator there is new mail.

Excellent tuning display, 15 LEDs with center function.

All significant link and controller status are displayed on the eight front panel bi-color LEDs.

The PTC-IIe is fully usable as a DSP filter for all modes (SSB, CW and others) as a "denoiser" with freely programmable sets of parameters. Features: Auto peak, auto notch, passband filter, inversion, delay line, function generator and more.

Comprehensive filtering of all inputs and outputs for excellent electromagnetic compatibility.

Hostmode, extended hostmode, CRC-hostmode. Fully compatible to nearly all modern PC programs. Integrates with FBB/Winlink networking and mailing systems.



Features of the PACTOR II Mode

Automatic frequency tracking allows the same frequency tolerance as with PACTOR I (+/- 80 Hz). The days of dithering fingers on the dial are over.

Newly developed on-line data compression system (PMC) reduces the data transferred by nearly 1/2.

Fully backwards compatible with all known PACTOR I implementations, including automatic mode recognition and selection. The unit always answers in the mode it has been contacted in (PACTOR I, PACTOR II, AMTOR).

Utilizing the latest coding technology. Constraint length 9 convolutional coding is used with full frame interleaving and Viterbi decoder combined with very efficient Memory ARQ algorithms.

Automatic transceiver output power adaptation to the quality of the HF link and the required data throughput.

Programmable squelch function for RTTY operation.

CW operation (RX and TX) with automatic speed adaptation using high sophisticated DSP algorithms. Users say: "the best cw receiving computer we have ever seen"

Available Options

- Pre-made PTC-IIe to radio interconnect cables
- GPS data in "Y" cable
- Ferrite chokes, type 31 material for HF suppression

Specifications

| | |
|----------------|--|
| Dimensions | 1 11/16 x 4 7/8 x 7 3/16 inches 43 x 126 x 183 mm |
| Weight | 19.5 ounces (553g) |
| Voltage | 12 VDC nominal, 15 VDC max |
| Power | 3 watts average |
| PC interface | DB9 serial port, AT type |
| Audio out | 20 to 2000 Mv, 1k ohm impedance |
| PTT | Switched, not greater than 1 amp |
| Audio in | 5 to 1000 Mv RMS. 47k ohms impedance |
| Memory | 512k CMOS w/ battery backup |
| Operating temp | -4 to 122 degrees F -20 to 50 degrees C |

Transceiver minimum switching time is 20ms. Check your transceiver for compatibility

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