⋮INCOMM⋮
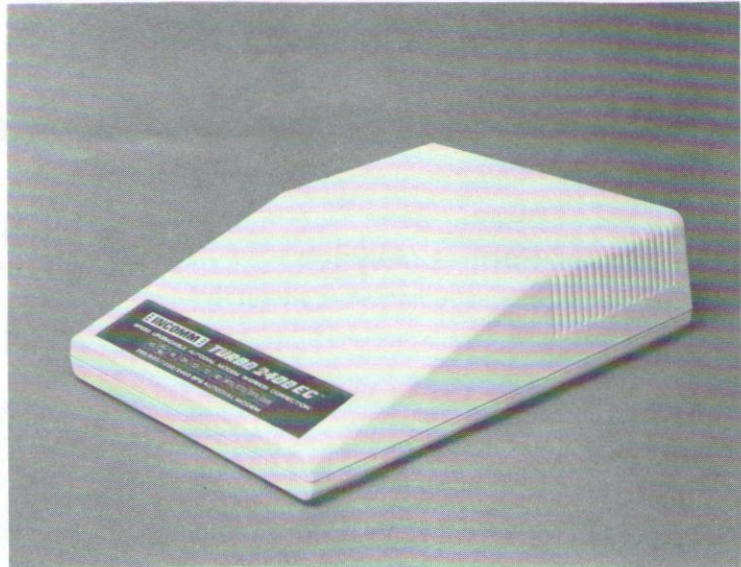
Manufacturers of Data Communication Equipment

INCOMM TURBO 2400EC™, Speed Upgradable Modem With Error Correction

TURBO 2400EC™ FEATURES

- 2400, 1200, 600, or 300 bps
- Upgradable to 4800, 9600, and 19,200 bps
- 5 Year Limited Warranty
- MNP Class 4 Error Correction
- Sync or Async
- Fully Hayes Compatible Dialing
- Automatic Adaptive Equalizer
- Supports 11 bit characters

General

The Incomm 2400EC is an error correction modem, 2400/1200/600/300 bps, half or full duplex over the switched network. At 2400 bps it is sync/async, CCITT V.22bis compatible. At 1200 bps it is sync/async, CCITT V.22 and Bell 212 compatible. At 600 bps it is async and at 300 bps it is async, Bell 103 compatible.

Performance

The Turbo 2400EC automatically adjusts itself to match the terminal's (or computer's) baud rate, parity, and stop bits in the originate mode. In the answer mode, it adjusts to the speed of the other modem. The default setting is CCITT 2400 bps but all parameters can be changed in the modem's non-volatile memory from an ASCII terminal by using the extended "AT" command set.

Error Correction

The error correction protocol is MNP class 4 and is compatible with MNP class 3, 2, and 1. The Turbo 2400EC will automatically adjust to the highest MNP class of the modem at the other end, and if that modem doesn't have MNP the Turbo 2400EC

will operate as an ordinary modem. An MNP class 4 modem talking to another MNP class 4 modem provides about a 10-15% increase in data throughput by reducing block sizes for poor lines and by eliminating overhead bits.

Dialing

The modem is fully compatible with the Hayes "AT" command and register set at all speeds and uses the Hayes 2400 commands for synchronous operation making the Turbo 2400EC compatible with virtually all IBM PC communications software. An internal speaker with software selectable volume is included as is an on-line help screen showing communication parameters.

Diagnostic Capability

11 status LED's are provided: Auto answer/error correction mode, off hook, high speed, DTR, RTS, DCD, TD, RD, RI, CTS, and DSR. Switches are provided for constant carrier, holding DTR high, auto reliable (error correction) mode, and auto answer. Error correction mode is indicated by the auto answer/error correction LED flashing. The modem runs through a self test when powered on and incorporates analog and digital loopback.

TURBO 2400EC™ TECH SPECIFICATIONS:

Operation:
Full duplex sync or async on 2 wire dial up lines.

Data Rates:
Synchronous 2400 bps or 1200 bps;
Asynchronous 2400, 1200, 600, or 300 bps.

Modulation:
FSK, PSK and QAM.

Character Format (Async):
8, 9, 10 or 11 bits including start and stop bits.

Error Correction:
MNP class 4

Transmitter Output Level:
Permissive: -10 dBm $\pm$ 1dBm

Receiver Sensitivity:
On: $--43$dBm
Off: -48 dBm
Hysteresis: 2 dBm minimum

Equalization:
Automatic adaptive.

Diagnostics:
Self test analog and digital loopback.

Digital Interface:
EIA RS232C

VF Interface:
7′ cable with RJ-11 jack. Additional RJ-11 jack for handset.

Size:
6¼″ Wide
1½″ High
8½″ Deep

Weight:
1.5 lbs.

Power:
100-130 VAC, 8 watts

FCC Registration:
Part 68: 5F2-72112-MD-E
                Ringer Equivalence 0.8B
Part 15: 5F2 - Turbo 2400S
                Complies with limits of Class B

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