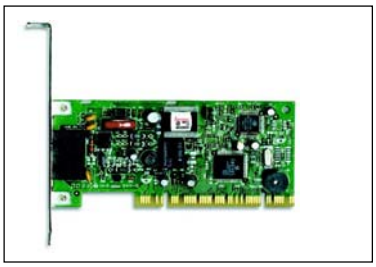
TurboComm PCI 56K Modem

PCI Host Accelerated Modem (HaM)



Model Number: I203

General Descriptions

The TurboComm I203 PCI 56K Modem is a standard ITU-V.92 compatible 56Kbps modem which supports high speed analog data, high speed fax and Remote TAM (Telephone Answering Machine). This new product is a leap forward in technology, performance and cost savings.

The I203 PCI 56K Modem is a Host Accelerated Modem (HaM) solution that combines and optimizes the best features from software and hardware modems. This unique hybrid delivers superior performance and is cost competitive.

The I203 PCI 56K Modem uses the host computer's CPU to replace the modem's controller without degrading CPU performance. Since today's CPUs are well equipped to handle Digital Signal Processing (DSP), some of the DSP functions are diverted to the CPU. However, to prevent a decrease in CPU and modem performance a separate, and less expensive, DSP chip is used to share the load. Maximum system and modem performance is maintained by splitting the processing optimally between the CPU and the DSP.

All products are made in TL9000 approved factory. I203 US version complies with FCC part15 and part68 regulations. Worldwide version is also available with CE and CTR-21 pan-Europe approval.

Features and Benefits

Host Signal Processing for both controller and data pump. Low cost design, Low power consumption, Less real estate.

PC 98 specifications for Windows and is TAPI and PCI 2.2 compliant. It satisfies legacy applications and supports all requirements for PC-based communications including all industry-standard.

Merges benefits from software and hardware modems. Distributes functions optimally between CPU and DSP

ITU-T V.92 56Kbps and auto rate adaptive. High-speed 56Kbps data transfer rate with maximum degree of interoperability.

AT commands for data, Class 1 fax and IS-101 voice.

Video Phone Ready. Interface to H.324 and V.80 video conferencing support

Answering Machine. Use the PC as a telephone attendant and allows for remote message retrieval.

Specifications

MODEM

Data Modem
V.92, V.90, V.34, V.32bis, V.32, V.22bis, V.22, V.23, V.21, Bell 212A, Bell 103

Error Correction
V.42, LAP-M & MNP 2-4

Data Compression
V.44, V.42bis & MNP5

Fax Modem
- Group III send and receive
- V.17, V.29, V.27ter, and V.21 ch2
- EIA/TIA-578 Fax Class1 Command

PC Telephony
- International telephony support
- Voice compression: ADPCM and A-law
- 4800, 7200, 8000, 9600, and 11025 samples/sec.
- IS-101 voice command set

Video Phone Ready Modem
- ITU-V.80 for videoconferencing
- H.324 interface support

Power Management
- ACPI Power Management
- Power-on, Sleep, Stop modes

Other Telephony Features
- Data/ Fax call discrimination
- Call Progress

Regulations

FCC part 15 and part 68 or CTR21 and CE approvals

Interface

PC: PCI Specification 2.2
PSTN: RJ11

Power Consumption
350mW (Typ.)

Mechanical

Size: 120mm(width) x 20mm (depth) x 60mm (height)
Net Weight: 80 g

Environmental

Operating temperature
0°C ~ 40°C

Humidity
10 % ~ 90 % (non-condensing)

Storage temperature
-20°C ~ 60°C

System Requirements

- **CPU:** Pentium 100Mhz and above, and compatible CPU
- **Memory:** 16Mbytes or above
- **HDD space:** 2Mbytes or above

Operating System Support

- Windows 95, 98, 2000, ME, NT4.0, and Windows XP

Sales and Service Points

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