Floreat, Inc.
Embedded Multimedia and Communications Software

V.32bis/ V.32 SoftModem (V32bis/V32 Software Modem)

Floreat's V.32bis/ V.32 modem software implements ITU-T V.32bis/ V.32 recommendations. The V32bis/ V32 SoftModem is a full duplex echo canceller data modem supporting data rates from 14.4 Kbps down to 4.8 Kbps in steps of 2.4 Kbps. The Trellis coded modulations support data rates of 7.2, 9.6, 12 and 14.4 Kbps and non-Trellis coded modulations support 4.8 and 9.6 Kbps. The symbol rate for all data signaling rates is 2400 symbols/sec. The modulation methods used are QPSK for 4.8 Kbps and QAM for the other data rates.

The V32bis/ V.32 software modem can be combined with other fall-back modems to support the lower speeds; V.22bis/ V.22, V.23, V.21 and Bell 212A, Bell 202, Bell 103. The V.34, V.90 and V.92 Softmodem can be added to support higher speeds or make a full suite of 56 Kbps modem software. The V.8/V.8bis startup negotiation procedures are included as a standard feature.

Any Floreat SoftModem can be licensed as a module and this module can be executed as a task in an operating system in a multitasking environment or it can execute standalone with its own kernel provided by Floreat upon request.

Floreat's software modems support most of the commercial analog front ends as well as various discrete DAAs with codecs, depending upon the application. The modem software also supports the digital environment such as T1/ E1 interfaces.

Floreat also implementsV.42, MNP 2-4 error correction and V.42bis, MNP5 compression protocols with its software modem.

The above listed modem software can be integrated with Floreat's other fax, telephony, speech compression, VoIP, FoIP, Imaging and Video software.

Floreat offers its software modems for various architectures; controllerless modem, hardware modem, host modem, DSP based modem, controller based modem, PC modem, RAS modem, Win Modem or USB modem. The V.32bis/ V.32 modem software is supported on various DSPs and processors as well as offered in ANSI C.

Floreat supports its software on the following DSPs, Controllers and Processors

- TI C5000 and C6000
- Intel Pentium fixed and floating point and XScale
- ADI Blackfin (BF53x), SHARC 21xxx
- ARM 7/9/9E, MIPS
- PowerPC, STM, SuperH cores, Philips Nexperia
- CEVA (formerly DSPG's licensing division)
- Ported by customers to their processors:
  - NEC
  - STM
  - Zilog

- For further information on the standard, please click **ITU Standards**.
- For our brief profile, please click **Company Profile**.
- For further inquiry, please send us an **Inquiry Form** or send an email to **info@floreatinc.com**.