Floreat, Inc.
Embedded Multimedia and Communications Software

V.22bis/ V.22 & Bell 212A SoftModem (V22bis/ V22 & Bell212A Software Modem)

Floreat's V.22bis/ V.22 modem software implements the ITU-T V.22bis/ V.22 recommendations and Floreat's Bell 212A SoftModem is Bell's recommendation and now it's Telcordia Technologies'. The V22bis and V22 or Bell 212A SoftModem are split-band software modems that support full duplex data rates of 2.4 Kbps and 1.2 Kbps respectively. The symbol rate for data signaling rates is 600 symbols/sec. The modulation methods are QPSK at 1.2 Kbps and QAM at 2.4 Kbps and for Bell 212A 300bps mode FSK modulation technique is used.

Floreat's V.22bis/ V.22 and Bell 212A software modem can be combined with other fall back modems to support the lower speeds; V.23, V.21 and Bell 202, Bell 103 as well as V.32bis/ V.32, V.34, V.90 and V.92 can be added to support higher speed modems or to make a full suite of 56 Kbps modem software.

Floreat's any 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 digital environment such as T1/ E1 interfaces.

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

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, WinModem or USB modem. Floreat's V.22bis/ V.22 and Bell 212A software modems are 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**.

Floreat, Inc., 14375 Saratoga Ave, Suite 203, Saratoga, CA 95070, USA www.floreatinc.com | Tel: 1.408.867.4867 | Fax: 1.408.867.8168