

V.90 SoftModem (V90 Software Modem)

Floreat's V.90 software modem implements the ITU-T V.90 recommendation for analog/digital configurations and thus achieves downstream connection rates of 56 Kbps through PCM modulation and upstream speed of 33.6 Kbps; V.90 SoftModem supports data rates from 28 Kbps up to 56 Kbps in steps of 1.333 Kbps. The V90 software modem can be combined with other fall back modems to support the lower speeds; V.34, V.32bis/V.32, V.22bis/ V.22, V.23, V.21 and Bell 212A, Bell 202, Bell 103. 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 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 modems, host modems, DSP based modems, controller based modems, PC modems, RAS modems, Win Modems or USB modems. The V.90 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.