

V.34 SoftModem (V34 Software Modem)

Floreat's V.34 software modem implements the ITU-T V.34 recommendation which, unlike older standards, uses adaptive intelligence to automatically select from multiple modulation methods and impairment-compensation techniques in order to optimize for a given telephone call. The V34 SoftModem supports the data rates from 33.6 Kbps down to 2.4 Kbps in steps of 2.4 Kbps. The V34 modem software enables full duplex, point-to-point 2 wire data communication over PSTN as well as 2 and 4 wire leased lines. The V.34 software modem can be combined with other fall back modems to support the lower speeds; V.32bis/V.32, V.22bis/ V.22, V.23, V.21 and Bell 212A, Bell 202, Bell 103. The 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 offering.

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 V34 modem software supports symbol rates for 2400, 2743, 2800, 3000, 3200, and 3429 symbols per second. The V.34 SoftModem uses QAM on each channel.

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 modem, host modem, DSP based modem, controller based modem, PC modem, RAS modem, WinModem or USB modem. The V.34 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.