

Floreat's FloFax Software

Floreat's FloFax includes all the fax modulation standards that are listed as requirements for the Group 3 Facsimile. This includes the following:

- 1) V.21 (300bps) recommendation which uses FSK (Frequency Shift Keying), in which different frequencies represent binary data. V.21 speeds are used to exchange initial capabilities of two fax machines but not to send the fax image
- 2) V.27ter (2400 and 4800 bps) which uses DPSK (Differential Phase-Shift Keying) in which phase differences are used to encode bits
- 3) V.29 (9600 bps with fallback of 7200 bps) that incorporates QAM (Quadrature Amplitude Modulation), amplitude modulation with phase shifts, and is used to transmit image data
- 4) V.17 (14400 bps with fall-back to 12000 bps, 9600 bps, 7200 bps), which uses TCM (Trellis Coding Modulation) that enhances reliability and supports high speeds so that this modulation scheme is used to transfer images
- 5) V.34 (33600 bps), which uses TCM constellations, echo-canceling and line-probing to achieve the high speeds that make it suitable for color fax transmission

Floreat's FloFax modem software is modular, re-locatable and re-entrant to support multi-channel capability. These fax software modems can operate within a multi-tasking environment or as a single task and it is supported on various DSPs and processors as well as offered in fixed and floating point C.

Floreat's Fax Modem software can be integrated with Floreat's other data modem, telephony, speech compression, VoIP, FoIP, imaging and video software for various applications.

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.