

Amateur Radio Digital Modes - PSK

Phase Shift Keying (PSK)

- PSK31, created by Peter Martinez (G3PLX), is most popular
- Transmits at 31 baud using BPSK modulation
- Sounds like whistling
- Very resistant to crowding and interference
- QPSK implements error correction for difficult QSOs
- DigiPan, fldigi, multimode, dxlab, DM-780

| Frequency | Amateur Band |
|--|--------------|
| 1.838 MHz | 160 meter |
| 3.580 MHz | 80 meter |
| 7.035 MHz 7.040 MHz 7.070 MHz 7.080 MHz | 40 meter |
| 10.142 MHz | 30 meter |
| 14.070 MHz | 20 meter |
| 18.097 MHz | 17 meter |
| 21.080 MHz | 15 meter |
| 24.920 MHz | 12 meter |
| 28.120 MHz | 10 meter |
| 50.290 MHz | 6 meter |
| 144.144 MHz | 2 meter |
| 222.07 MHz | 1.25 meter |
| 432.2 MHz | 70 cm |
| 909 MHz | 33 cm |

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Amateur Radio Digital Modes - Packet

AX.25 protocol digital mode

- First used by Canadian amateur radio operators in 1978
- Authorized for use in the US in 1980
- Requires a modem or Terminal Node Controller (TNC)
- Offers error collection and message forwarding
- Automated Packet Reporting System (APRS)
- TARPNet, G8BPQ, ROSE, TexNet, BBS, KA
- Most commonly used on 2m

