



# 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)
- TARPEN, G8BPQ, ROSE, TexNet, BBS, KA
- Most commonly used on 2m



Advanced Electronic Applications, Inc.

Model PK-232MBX

THRESHOLD

M  $\longleftrightarrow$  S

DCD



TUNE

PAKRATT 232

ERROR	IDLE	PHASE	STBY
MULT	SEND	CONV	
STA	CON	CMD	TRANS
STATUS			

STBY	MODE L	FEC	ASCII	BALBOOT
ARIQ	CHECK	PRT	MORSE	
MODE				

RADIO 1 ☒ OFF

RADIO 2 ☐ ON





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# Amateur Radio Digital Modes - SSTV

## Slow scan television

- Transmits low-resolution images in b/w or color
- Developed in the 1950's using vidicon tubes for image capture
- FCC approved for amateur radio operators in 1968
- Multiple different transmission modes and protocols
- Very easy to monitor popular frequencies
- Apps available for desktop and mobile
- Demonstration at the end of the presentation

