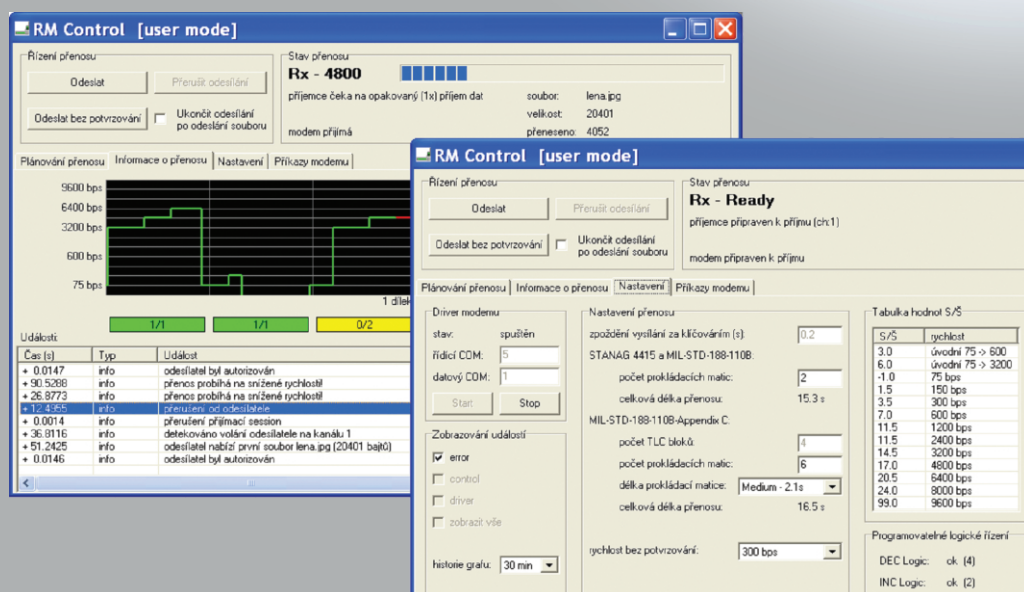


DATAPREN

HF Modem Control

Characteristic

- SW allows transfers of both text and binary files using the Harris RF-5710A modems and HF transceivers (SSB mode)
- Point to point asymmetric radio connection is employed. The link layer and ARQ transport layer are designed by URC Systems Company to suits the specific conditions of HF radio band. These layers are implemented above the modem waveforms (STANAG a MIL-STD)
- One or more files can be scheduled to be sent during one transfer session. When session is in progress user can still add or remove files from the session schedule
- Authentication of both sides and time stamp checking is done at the beginning of each session. In order to achieve the maximum transmission speed along with changing HF radio conditions the signal to noise ration and packet errors are measured and the modem rate is controlled during session. When the connection gets broken it can be recovered later on with no need to transfer again the part of file which was already received
- Support for other modems with listed waveforms is optional



Supported Hardware

Supported modems	Harris RF-5710A
Supported waveforms	STANAG 4415 (75bps) MIL-STD-188-110A (150 - 2400 bps) MIL-STD-188-110 Appendix C (3200 - 9600 bps)
Service packet rate	75 bps
Data packet rate	75 - 9600 bps
Maximum file size	2 MB
Timestamp repeat period	30 years
Authentication code length	40 bits (code changes after every new session)

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