

RadCom Data Column subject index

Date	Ref No.	Items Covered
Feb 2000	1	Introduction. Data comms. Fundamentals - ASK
Apr 2000	2	High speed data on microwaves. ALE, Slow data on LF. Fundamentals - FSK
Jun 2000	3	Transceiver control. Fundamentals - FSK continued, the Shannon limit.
Aug 2000	4	Bandplans and frequencies. Datamode contesting. DSP on Amsat Phase 3D. Fundamentals - error detection
Oct 2000	5	Latest trends in datacomms. Audio connection problems. Fundamentals - error correction
Dec 2000	6	High Speed packet. Ultra simple datacomms experiments. Fundamentals - error detection and correction
Feb 2001	7	The VE2IQ 'Coherent' BPSK mode
Apr 2001	8	Microwaves and EME data comms ideas. Spectrum analysis software. Fundamentals - BPSK
Jun 2001	9	BARTG, Wolf BPSK at LF. HF Email. Fundamentals - BPSK demodulation
Aug 2001	10	Replacement for the 56002EVM. The T7F UHF data transceiver. Fundamentals - clock recovery
Oct 2001	11	'Listening in'. T7F update. BARTG update. Multiple Data Modes compared. Windows programming
Dec 2001	12	Microwave data link update. Fundamentals - waveform shaping and bandwidth control.
Feb 2002	13	WSJT Package. DAT20 HF Data Transceiver. Fundamentals - signals in noise.
Apr 2002	14	Wireless LANs and amateur radio. LF Data comms update. JASON.
Jun 2002	15	Band planning for datacomms. Packet radio in the south. The DSTAR system
Aug 2002	16	Packet Radio. Digital voice at Dayton
Oct 2002	17	The 5MHz experiment. Data on topband. Fundamentals - designing a data mode from scratch
Dec 2002	18	Flexnet packet radio software. MIL-STD 110A Keep your Older Computers
Feb 2003	19	HF Band planning. More on topband data. Automatic PC time setting. Fundamentals - continued
Apr 2003	20	Tx watchdog timer. Fundamentals – MS mode continued
Jun 2003	21	Multiple soundcards. Multiple serial ports. Reverse beacon with digitisation
Aug 2003	22	G3RUH's Forward Error Correction note.
Oct 2003	23	PSK Reporting. GPS locked signalling
Dec 2003	24	PC Interference. Clock recovery basics.
Feb 2004	25	Five year anniversary - Data Column Feedback
Apr 2004	26	BARTG. MixW USB transceiver interface. Digital selective calling. Digital voice
Jun 2004	27	Windows XP. MultiPSK. Modern modem chips
Aug 2004	28	RTTY Beacon keyer. RTTY software. More on PC operating systems
Oct 2004	29	ON4KST / microwave chat. WLANs in contests
Dec 2004	30	Some corrections. Globalnet. Rejuvenating the packet network
Feb 2005	31	LF data modes update. Datamodes and DxPeditons. PIC programming
Apr 2005	32	Fourpak packet update. WSJT update – JT modes. PICs and WSJT coding.
Jun 2005	33	WSJT - the JT65 mode. PC command prompt and redirection
Aug 2005	34	New Wolf GUI. The Numerically Controlled oscillator
Oct 2005	35	Software Defined Radio basics. Doing it in a PIC
Dec 2005	36	Katrina and ALE. Chip64. Olivia multi FSK waveform
Feb 2006	37	MM wave exchanger. Signal averaging. Timing issues
Apr 2006	38	Soundcard Programming and DSP
Jun 2006	39	Soundcard Calibration. Pseudo Noise / PR sequences
Aug 2006	40	Remote Control
Oct 2006	41	USB Serial Port replacement, 2.4GHz Digital Voice, ALE On The Air Week
Dec 2006	42	Two Modern Datamodes – OFDM and MSK
Feb 2007	43	Interfacing a PC Keyboard, BBC Basic for Windows, PSK31 generation in a PIC/DDS
Apr 2007	44	Bluetooth Remote Control, IP Over Avian Carrier, IQ Waveform generation, Signal Decoding challenge
June 2007	45	QPSK Modulation and Coding – decoding challenge solution.
Aug 2007	46	Two or more soundcards. Virtual Audio Cable. PIC Bootstamp
Oct 2007	47	500kHz Data Experiments, Audio Tones without a PC, Simple FSK Demod, Soundcard Sampling Rates
Dec 2007	48	G3PLX Digital Voice Experiments, DFCWi, Soundcard Interfacing,
Feb 2008	49	USB Host Module, Datamode Performance Summary, SDR Transmit Software
Apr 2008	50	Keyboard Modes for LF, Audio Triggered Switch, Detecting Signals in Noise Part.1

June 2008	51	Detecting Signals in Noise Part 2, WSPR and JT65, Speech Coding Module
Aug 2008	52	Detecting Signals in Noise Part 3, WSPR QSO Mode, Illinois Digital Ham Group
Oct 2008	53	Software from ZL, Clicklock & Phase Coherent Reception, Digital Voice Woes
Dec2008	54	PSK Rumble Contest, BPSK and the Costas Loop, Mono Input and Audio Dongles
Feb 2009	55	Global ALE Marks a Record, SDR 'Back End' WSPR Updated
Apr 2009	56	Audio Phase Shifter, FLDIGI Software, WSPR Reporting database
June 2009	57	Optimum Modulation Choices, Intro to Forward Error Correction
Aug 2009	58	Path Simulators, Block Coding
Oct 2009	59	Convolutional Coding & Decoding, Packet radio still alive.
Dec 2009	60	10 th Aniversary, Soundcard Sampling rates, Audio calibrator
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Short Circuits Index

1	May 2008	Intro, Using Modern Components, Modamps
2	Jul 2008	DC/DC Converter Modules, Phase Comparators, Solid State Relays
3	Sept 2008	Decoupling Pitfalls, Quick and Easy Synthesizers
4	Nov 2008	Modifying Plugtop PSUs
5	Jan 2009	Digital Antenna Rotator
6	Mar 2009	Wideband VHF Converter
7	May 2009	Driving YIG Oscillators
8	Jul 2009	Logarithmic Converters, High Side Current Monitoring
9	Sept 2009	Self Protection and Fail Safe Design
10	Nov 2009	Salvaged Synthesizers, IQ upconverter
11	Jan 2010	LM317 Regulator, GaAs FET Biasing
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