

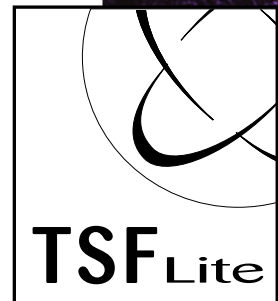
TeamSimoco

TSFLite VHF/UHF BASE STATION



TSF Lite provides TSF Base Station quality at highly competitive price where only local audio is required.

- Variable 1 - 25W power
- 1U height, x 19" base stations,
- Internal Power Supply Standard
- High environmental specification (-25C to +55C)
- Transmit Duty Cycle 100%, Full duplex
- Rack or wall mounted
- Microsoft Windows based Programming Tool
- DSP controlled, fully programmable
- PMR frequency bands covered (66-520MHZ)
- In-built loudspeaker for audio monitoring
- 37-way Facilities socket with programmable pin functions
- 4 wire local audio from facilities socket
- Local Encode/Decode, CTCSS, DCS and Selcall
- Transmission Timers
- Supports SRM9030 control head and engineering handset



TSFLITE



SPECIFICATIONS

Team Simoco

1. General	
Channel Bandwidth	12.5kHz(11K0F3EJN), 20kHz(14K0F3EJN) or 25kHz (16K0F3EJN) selectable per channel
Modulation	Freq. F3E (voice) pre-emphasised/flat, or FFSK data (1200 or 2400bps)
Frequency Bands	E0: 66-88MHz AC:136-174MHz K1* 174-208MHz KM*: 208-245MHz R1:335-375MHz R3*:335-400MHz TU:400-480MHz UW:440-520 MHz * Subject to availability
Stability	± 2.0ppm
Temperature	-25C to +55C Operating (Full Spec.) -40C to +80C Storage
Antenna Connect	2 x 50Ω female N-type
Environmental	IP20 ingress protection, Humidity <95% non-condensing
Inputs/Outputs	Engineer's handset (RJ45 – front panel) Programmable facilities connector (37 way D-type) Power connector (5 Pin, 25 D-shell)
Supply Voltage	10.8 to 16.2V DC negative earth (13.65V nominal)
Type Approval	CE Type approvals to R&TTE Directive 1999/05/EC: EN300-086 Radio, EN300-113 Data, EN301-489-05 EMC, EN300-219 Sig. EN60950 safety, TBR15 and 17-line, FCC and AS/NZ
Dimensions	44mm(1U) High x 437mm Wide x 450mm Deep (Excluding cables and ears)
~ (In Wall Mount)	125mm High x 465mm Wide x 470mm Deep
Power Requirement	100V AC/230V AC Mains or 12V DC/24V DC (nominal) for 25W
Weight	6.95 kg

2. Transmitter	
Transmit Power	1W to 25W, selectable per channel
Tx Current Consumption	Typical: 25W:5.7A (20C; no Engineer's Handset) Max: 25W:8.85A (fans & audio on max plus Engineer's Handset)
Duty Cycle	100%
Audio Distortion	<5% at 1kHz, 60% deviation
Audio Frequency Response	+1dB to – 3dB of pre-emphasised 300 to 3000Hz on 25kHz channel, 300 to 2550Hz on 12.5kHz channel
Intermodulation	>40dB or >70dB attenuation with Internal Isolator option (TSF-ISOLATOR).
Hum and Noise	>40dB (12.5kHz), 45dB (25kHz)
Transmit Rise Time	<25mS

3. Receiver	
Sensitivity	Voice: ≥12dB SINAD for 0.3μV _{pd} for 12.5kHz chan. Data: typical FFSK performance for <10-2 BER (<20%MER): 0.3μV _{pd} – 1200 baud in 12.5kHz & 1200/2400 baud in 25 kHz, 0.5μV _{pd} – 2400 baud in 12.5kHz channel. [Ref: EN300-113-1:9.1]
Rx Current Consumption	Typical: 1.0A (20C; no Engineers Handset) Max: 1.55A (fans & audio on max plus Engineers Handset)
Selectivity	>73dB (25kHz), >63dB (12.5kHz)
Intermodulation	>70dB attenuation (ETSI method)
Audio Response	±3dB of de-emphasised 300Hz to 2.55kHz for 12.5kHz chan with CTCSS
Audio Output	2Wrms internal monitor speaker
Distortion	<5%
Blocking	>95dB at ±1Mhz
Hum and Noise	>40dB (12.5kHz)

For additional information on this or any other Team Simoco product, visit our web site at: www.teamsimoco.com

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