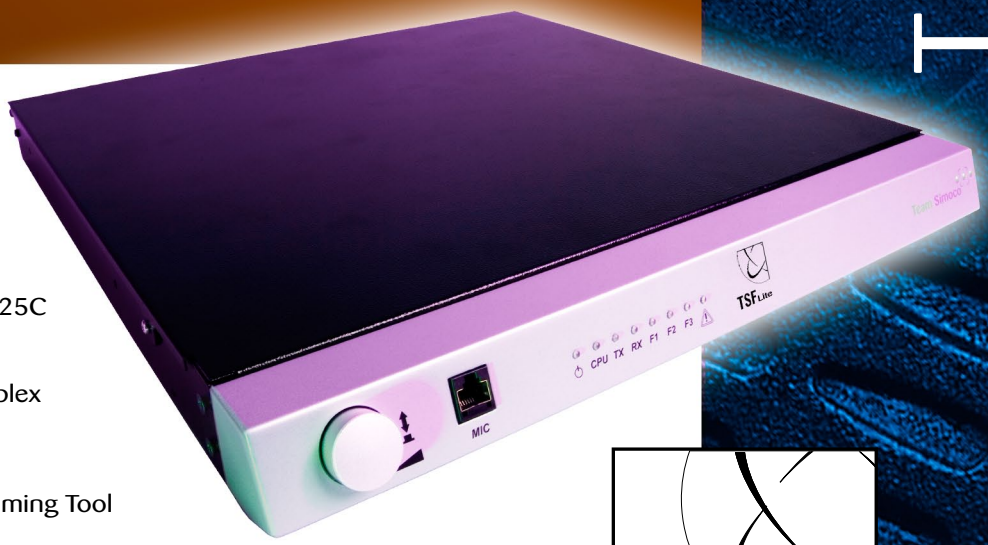
Team Simoco
A Simoco Group Company

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

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SPECIFICATIONS

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)

ISOQAR QUALITY ASSURED FIRM ISO 9001 UKAS QUALITY MANAGEMENT 026
Certificate number 3358/02

ISOQAR HEALTH and SAFETY OHSAS 18001

Note:
Typical figures based on normal operating conditions. Not all combinations of frequency bands and options are available for every market area.

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

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