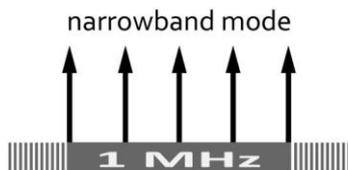


Main Features



- **Dual power amplifier & phase canceling configuration for intermodulation free operation**
- Narrowband for high density
- Miniature design with flexible pcb (no connectors) for extended reliability
- User selectable companding systems: ENR (noise reduction) & ENC (voice quality optimized)
- Input dynamic extension with an integrated HW limiter (30 dB above peak)
- P48 phantom power for condenser microphones
- **LINEAR feature @20L power setting:**
allows EVENLY SPACED frequency allocation intermodulation free:



71 Mic on the range 940-960 MHz (250kHz space)



- XLR-3F connector with locking collar to ensuring an extremely tight noiseless fit!
- Infrared interface for management and firmware update
- Audio input circuitry with high linearity audio transformer
- Battery: 2 AA Alkaline, rechargeable NiMH or Lithium

Very easy and quick to use thanks to OLED display, MTB40S benefit also of the latest Wisycom RF technology along with an **enhanced robustness against noise and inter-modulation.**



TECHNICAL SPECIFICATIONS

Frequency ranges	B8 band: 940 ÷ 960 MHz
Switchable channels	2400 managed in 40 groups of 60 frequencies completely user customizable
Switching-window	20 MHz
Frequencies	Quartz PLL frequency synthesizer circuit (25 kHz step)
Frequency error	± 2.5 ppm, in the rated temperature range
RF Power	switchable typ. 20 / 20L (=20mW LINEAR) / 50 /100 mW
Modulation	narrowband FM, with pre-emphasis
Nominal deviation	±25 kHz Narrowband option
Peak deviation	±35 kHz Narrowband option
Spurious emissions	< 2 nW
Telemetry feature	TX transmits also a digitally modulated sub-carrier, suitable for: <ul style="list-style-type: none"> ▪ tone-squelch operating ▪ remote battery monitoring
Noise Reduction system	ENR (Wisycom Extended-NR), with independent Attack- and Recovery-time, noise optimized ENC (Wisycom Extended-NC), with independent Attack- and Recovery-time, voice optimized & with reduced pre-emphasys
AF bandwidth	45 Hz ÷ 17 KHz (3dB), 55 Hz ÷ 15 KHz (1dB) Narrowband with LPF at 15kHz
Distortion	< 0.3 % (0.15 % typ.)
SND/D ratio (Analogue)	45 Hz ÷ 17 KHz (3dB), 55 Hz ÷ 15 KHz (1dB) Narrowband with LPF at 15kHz
Audio input connector	XLR-3F (transformer isolated) with locking collar and 48V phantom power
Audio input level	from -54 dBu (775 uV) to 26 dBu (15.5 V) at peak deviation (1 kHz), adjustable in 1 dB steps
Max input level	+26 dBu (15.5 V) at clipping, +20 dBu (7.75 V) at nominal level
Managing interface	IrDA
LED	RGB led indication with (red, green and blue): <ul style="list-style-type: none"> ▪ Wireless transmission status: GREEN on/RED off ▪ Battery lifetime status: GREEN steady (> 25%), slowly blinking (< 25%), quickly blinking (<12%) ▪ Modulation peek (if activated & the limiter is disabled): RED ▪ Limiter into action: Blue
Battery lifetime indication	8 steps : 7 bars (100%-87%-75%-63%-50%-38%-25%) and “empty bar” quickly blinking (12% remaining)
Display	High contrast OLED white display (128 x 32 pixels)
Power supply	2 AA size cell (Alkaline, rechargeable NiMH or Lithium)– Phantom Power to Mic (max 4 mA)
Temperature range	-10 ÷ +55 °C
Dimensions	124 x 40 x 34 mm (Height-Width-Depth)
Weight	Approx. 210 g. without batteries (250g with batt)

In compliance with

FCC PART 74
FCC-ID: POUMTB40SUS8
RSS-210
IC: 11967A-MTB40SUS8

Limited to
941.50-952.00MHz,
952.85-956.25MHz,
956.45-959.85MHz

For USA and Canada

SKU: MTB40S-US8_B8-PV-LI-NB