

TECHNICAL SPECIFICATIONS

Switchable channels	2400 allocated by 40 groups of 60 channels (in specific frequency range), quickly selectable with dedicated buttons
Switching window	Up to 232 MHz, (see <i>Variants</i> below)
Frequencies	Quartz PLL frequency synthesizer circuit (25 kHz step)
Frequency stability	▪ $\pm 2,5$ ppm (in the rated temperature range)
Temperature range	-10 ÷ +55 °C
Max RF power	<ul style="list-style-type: none"> ▪ 10 mW (ERP) ▪ 50 mW (ERP) ▪ [100 mW (ERP) (note: in some countries high power can be disabled, for local norm!)]
Spurious emissions	< 2 nW
Modulation	wideband FM, with pre-emphasis
Nominal deviation	± 40 kHz (Peak deviation = ± 56 kHz)
Telemetry feature	MTB40S transmits also a digitally modulated sub-carrier, suitable for: <ul style="list-style-type: none"> ▪ <i>tone-squelch operating</i> ▪ <i>remote battery monitoring</i>
AF input connector	XLR-3F (transformer isolated) with locking collar and 48V phantom power
AF input level	100 dB adjustable range from -54 dBu (775 uV) to 46 dBu (15.5 V) at peak deviation (1 kHz), adjustable in 1 dB steps
Max. input level	+46 dBu (15.5 V) at clipping, +20 dBu (7.75 V) at nominal level
Noise-Reduction	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	<ul style="list-style-type: none"> ▪ 45 Hz ÷ 21 KHz (3dB) ▪ 55 Hz ÷ 20 KHz (1dB)
Distortion	< 0.3 % (0.15 % typ.)
Signal-to-noise ratio	<ul style="list-style-type: none"> ▪ typ. 115 dB (A)_{rms} with 40 kHz deviation ▪ typ. 121 dB (A)_{rms} with 56 kHz deviation
Led	RGB Led indication (red, green and blue): <ul style="list-style-type: none"> ▪ Wireless transmission status <ul style="list-style-type: none"> - Green when RF transmission power is on, - Red when RF transmission power is off. - Blue when the input signal is above the peak threshold ▪ Modulation peak (if activated & limiter disabled): <i>RED</i> ▪ Battery lifetime status: <i>GREEN</i> - <u>steady</u> (> 25%) - <u>slowly blinking</u> (< 25%) - <u>quickly blinking</u> (<12%)
Display	High contrast OLED (Organic light-emitting diode) white display (128 x 32 pixels) 8 step battery lifetime indication: 7 <u>bars</u> (100%-87%-75%-63-50%-38%-25%) and " <u>empty bar</u> " quickly blinking (12% remaining)
Power supply	2 AA size batteries (Alkaline, rechargeable NiMH or Lithium) – Phantom Power to Mic (max 4 mA)
Dimension	124 x 40 x 34 mm (Height-Width-Depth)
Weight	Approx. 210 g. without batteries (250g with batt)

POWER PROFILE & COUNTRY

FREQUENCY RANGE:

- EU** max power 50mW (Europe)
- EUX** max power 100mW (Europe)
- US** max power 50mW (USA & Canada)
- USX** max power 100mW (USA & Canada)
- CN** max power 50mW (China)
- JP** max power 10mW (Japan)
- NZ** max power 100mW (New Zealand)
- AU** max power 100mW (Australia)

* MTB40S -EUX is not an SRD device, it requires specific authorization by your local frequency authority!

VARIANTS:

• FREQUENCY RANGE

- B1** 470-640 MHz
- B5** 470-654 MHz
- B2** 566-798 MHz
- B3** 510-698 MHz

• COLOR

- PV** ceramic coating

Note: MTB40S series complies with ETSI 300 422