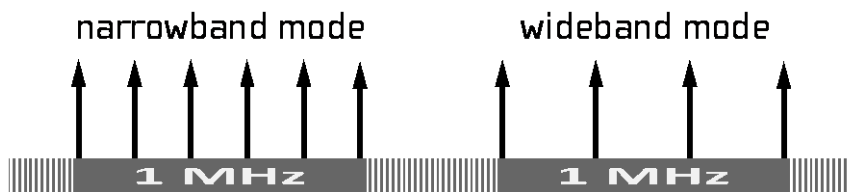


## Main Features

- Up to 232 MHz bandwidth in 470/1260 MHz range
- **Dual power amplifier & phase canceling configuration for intermodulation free operation**
- Wideband and Narrowband options available
- Ultra-light metal alloy body
- User selectable multi-companing systems:
  - ENR (noise optimized)
  - ENC (voice optimized)
- Infrared interface for management and firmware update
- Extended regulation on Mic input gain: 80dB in 1dB step
- 48V phantom power with PHA48 accessory
- Input dynamic extension with an integrated **HW limiter (30 dB above peak)**
- Intermodulation free allows **EQUALLY SPACES** frequency allocation:



Example for 8 MHz: 250KHz space → 33 Mic (narrowband), 350kHz space → 23 Mic

- Battery: 2 AA Alkaline, rechargeable NiMH or Lithium  
Autonomy (Alkaline): > 10h @ 50mW, > 6h @ 20L mW (intermod free operation)
- Max input level 26dBu (15.5 V clipping) to connect directly to mixers and instruments



## General Description

*“MTP40S **Linear** series is an extremely small and light pocket transmitters especially designed for professional wireless microphone applications”*

Very easy and quick to use thanks to OLED display, dedicated buttons and a joggle selector.

MTP40S **Linear** benefits also of the latest Wisycom RF technology along with an **enhanced robustness against noise and inter-modulation**.

## TECHNICAL SPECIFICATIONS

<b>Frequency ranges</b>	B7 option: 470 ÷ 663 MHz, B3 option: 510 ÷ 698 MHz, B2 option: 566 ÷ 798 MHz BP option: 806 ÷ 810 MHz, B8 option: 940 ÷ 960 MHz, B6 option: 960 ÷ 1160 MHz
<b>Switchable channels</b>	2400 managed in 40 groups of 60 frequencies completely user customizable
<b>Switching-window</b>	Up to 232 MHz, depending on band (see <i>Variants</i> below)
<b>Frequencies</b>	Quartz PLL frequency synthesizer circuit (25 kHz step)
<b>Frequency error</b>	± 2.5 ppm, in the rated temperature range
<b>RF Power</b>	switchable typ. 20 mW/ 20L mW / 50 mW /100 mW note: in some countries high power can be disabled, for local norm!
<b>Antenna connector</b>	LEMO-F 1 pin
<b>Modulation</b>	wideband FM, with pre-emphasis (Narrowband on request)
<b>Nominal deviation</b>	±40 kHz Wideband (±25 kHz Narrowband option)
<b>Peak deviation</b>	±56 kHz Wideband (±35 kHz Narrowband option)
<b>Spurious emissions</b>	< 2 nW
<b>Telemetry feature</b>	TX transmits also a digitally modulated sub-carrier, suitable for: <ul style="list-style-type: none"> <li>▪ tone-squelch operating</li> <li>▪ remote battery monitoring</li> <li>▪ optional PTT (push to talk) operation</li> </ul>
<b>Noise Reduction system</b>	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
<b>AF bandwidth</b>	45 Hz ÷ 21 KHz (3dB), 55 Hz ÷ 20 KHz (1dB) Wideband with LPF at 20KHz 45 Hz ÷ 17 KHz (3dB), 55 Hz ÷ 15 KHz (1dB) Narrowband with LPF at 15kHz
<b>Distortion</b>	< 0.3 % (0.15 % typ.)
<b>SND/D ratio (Analogue)</b>	typ. 115 dB (A)rms with 40 kHz deviation ▪ typ. 121 dB (A)rms with 56 kHz deviation Wideband typ. 115 dB (A)rms with 25 kHz deviation ▪ typ. 121 dB (A)rms with 35 kHz deviation Narrowband
<b>Audio input connector</b>	LEMO or DPA, gain selectable -60 ÷ +40dB LEMO connector configurable on 'mic' display menu in 5 options: <ul style="list-style-type: none"> <li>▪ '2 wires': -54 dBu ÷ +26 dBu peak, no bias voltage</li> <li>▪ '2 wires + bias': -54 dBu ÷ + 6 dBu peak, 5.5 V on 4k7 bias supply</li> <li>▪ '3 wires': -54 dBu ÷ +26 dBu peak</li> <li>▪ '2 wires &amp; phantom': -54 dBu ÷ +26 dBu peak</li> <li>▪ '2 wires + bias &amp; phantom': -54 dBu ÷ + 6 dBu peak, 5.5 V on 4k7 bias supply</li> </ul> DPA connector (2 pin microdot audio connector) configurable only <ul style="list-style-type: none"> <li>▪ '2 wires': -54 dBu ÷ +26 dBu peak, no bias voltage</li> <li>▪ '2 wires+bias': -54 dBu ÷ + 6 dBu peak, 5.5 V on 4k7 bias supply</li> </ul>
<b>Audio input level</b>	from -54 dBu (775 uV) to 26 dBu (15.5 V) at peak deviation (1 kHz), adjustable in 1 dB steps
<b>Max input level</b>	+26 dBu (15.5 V) at clipping, +20 dBu (7.75 V) at nominal level
<b>Managing interface</b>	IrDA
<b>LED</b>	RGB led indication with (red, green and blue) on wireless power switch: <ul style="list-style-type: none"> <li>▪ Wireless transmission status: GREEN on/RED off</li> <li>▪ Battery lifetime status: GREEN steady (&gt; 25%), slowly blinking (&lt; 25%), quickly blinking (&lt;12%)</li> <li>▪ Modulation peek (if activated &amp; the limiter is disabled): RED</li> <li>▪ Ptt status: RED if active</li> <li>▪ Limiter into action: Blue</li> </ul>
<b>Battery lifetime indication</b>	8 steps : 7 bars (100%-87%-75%-63-50%-38%-25%) and "empty bar" quickly blinking (12% remaining)
<b>PTT function</b>	Pin 3 of the AF connector can be setup to an external push button
<b>Display</b>	High contrast OLED white display (128 x 32 pixels)
<b>Power supply</b>	2 AA size cell (Alkaline, rechargeable NiMH or Lithium)
<b>Power consumption</b>	250mA@ 2.6V average (display off, 100mW power)
<b>Battery life</b>	with 2 AA alkaline <ul style="list-style-type: none"> <li>▪ approx. 14 hours @ 10mW</li> <li>▪ approx. 10 hours @ 50mW</li> <li>▪ approx. 7 hours @ 100mW</li> <li>▪ approx. 6 hours @ 20mW Intermod Free "20L" level</li> </ul>
<b>Temperature range</b>	-10 ÷ +55 °C
<b>Dimensions</b>	73,1mm x 64,5mm x 21,6mm (HxWxD) with clip
<b>Weight</b>	Approx. 85 g. without batteries (135g with batt.)

### MTP40S Linear

#### POWER PROFILE & COUNTRY FREQ. RANGE:

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

#### OPTIONS:

- NB** narrow band

#### ▪ AUDIO CONNECTOR

- LM** 3 PIN LEMO CONNECTOR
- DP** 2 PIN DPA MICRODOT CONNECTOR

#### ▪ COLOR

- BL** body color black
- PV** body color titanium grey

#### ▪ FREQUENCY RANGE

- B7** 470-663 MHz    **B8** 940-960 MHz
- B3** 510-698 MHz    **BP** 806-810 MHz
- B2** 566-798 MHz    **B6** 960-1160 MHz

\* MTP40S-EUX is not an SRD device, it requires specific authorization by your local frequency authority!