

**-D option for DPA microdot connector****-L option for LEMO connector**

### Main Features

- Up to 120 MHz bandwidth in 470/798 MHz range
- Miniature design with flexible pcb (no connectors) for extended reliability
- Ultra-light metal alloy body
- User selectable multi-combanding systems:
  - ENR (noise optimized)
  - ENC (voice optimized)
- Battery: 2 AA Alkaline or rechargeable NiMH
- Autonomy:
  - > 10h @ 50mW output power
  - > 14h @ 10mW output power
- Infrared interface for management and firmware update
- Easy and quick to setup thru an Oled display gain/freq button and a joggle selector
- Extended regulation on Mic input gain: 80dB in 1dB step
- Max input level 26dBu (15.5 V clipping) to connect directly to mixers and instruments
- 48V phantom power to use wired mic thru the PHA48 accessory



### General Description

*“MTP40 lite-series is an extremely small and light pocket transmitter especially designed for professional wireless microphone applications”*

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

MTP40 lite-series benefit also of the latest Wisycom RF technology along with an enhanced robustness against noise and inter-modulation.



**Before putting the device into operation, please observe the respective country-specific regulations**



**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 120 MHz, depending on band (see below code table)   |
| Frequencies                     | Quartz PLL frequency synthesizer circuit (25 kHz step)  |
| Frequency stability             | ▪ ± 2,5 ppm (in the rated temperature range)  |
| Temperature range               | -10 ÷ +55 °C  |
| Max RF power                    | ▪ 50 mW (ERP) when high power selected<br>▪ 10 mW (ERP) when low power selected   |
| Spurious emissions              | < 2 nW  |
| Modulation                      | wideband FM, with 50 µs pre-emphasis  |
| Nominal deviation               | ±40 kHz (Peak deviation = ±56 kHz)  |
| Telemetry feature               | It transmits also a digitally modulated sub-carrier, suitable for:<br>▪ <i>tone-squelch operating</i> ▪ <i>remote battery monitoring</i> ▪ <i>optional PTT (push to talk) operation</i>   |
| AF input connector              | Configurable on 'mic' display menu in 5 options:  |
| LEMO option                     | ▪ '2 wires': gain selectable -40 ÷ +40 (-54 dBu ÷ +26 dBu peak), no bias voltage<br>▪ '2 wires + bias': gain selectable -20 ÷ +40 (-54 dBu ÷ + 6 dBu peak), 5.5 V on 4k7 bias supply<br>▪ '3 wires': gain selectable -40 ÷ +40 (-54 dBu ÷ +26 dBu peak)<br>▪ '2 wires & phantom': gain selectable -40 ÷ +40 (-54 dBu ÷ +26 dBu peak),<br>▪ '2 wires + bias & phantom': gain selectable -20 ÷ +40,(-54 dBu ÷ + 6 dBu peak), 5.5 V on 4k7 bias supply |
| AF input level                  | 80 dB adjustable range from -60 dBu (775 µV) 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   |
| Noise-Reduction                 | ENR (WisycOM Extended-NR), with independent Attack- and Recovery-time, noise optimized<br>ENC (WisycOM Extended-NC), with independent Attack- and Recovery-time, voice optimized & with reduced pre-emphasys  |
| AF bandwidth                    | ▪ 45 Hz ÷ 21 KHz (3dB)<br>▪ 55 Hz ÷ 20 KHz (1dB)  |
| Distortion                      | < 0.3 % (0.15 % typ.)   |
| Signal-to-noise ratio           | ▪ typ. 115 dB (A) <sub>rms</sub> with 40 kHz deviation<br>▪ typ. 121 dB (A) <sub>rms</sub> with 56 kHz deviation  |
| Led                             | Led indication with bicolor led (red & green) on wireless power switch:<br>▪ Wireless transmission status: <i>GREEN</i> on/off<br>▪ Modulation peek (if activated): <i>RED</i><br>▪ Battery lifetime status: <i>GREEN</i> - <u>steady</u> (> 25%)<br>- <u>slowly blinking</u> (< 25%) - <u>quickly blinking</u> (<12%)<br>▪ Ptt status: <i>RED</i> if active  |
| Display                         | High contrast OLED (Organic light-emitting diode) bicolor display (96 x 36 pixels)<br>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)   |
| PTT function                    | Pin 3 of the AF connector can be setup to an external push button   |
| Power supply                    | 2 AA size batteries (Alkaline, rechargeable NiMH)   |
| Battery life<br>(2 AA alkaline) | ▪ approx. 10 hours @ 50mW continuous working<br>▪ approx. 14 hours @ 10mW continuous working  |
| Dimensions                      | 73 x 61 x 17.5 mm (Height-Width-Depth) without clip   |
| Weight                          | Approx. 80 g. without batteries (120g with batt.)   |

**OPTION CODE MTP40-X-YZ :**
**- AUDIO CONNECTOR (-X)**
**3** 3 PIN LEMO CONNECTOR

(use FVB.00.003.NLN on Mic)

**D** 2 PIN MICRODOT CONNECTOR

**- COLOR (-Y)**
**B** body color "black (powder coating)

**- FREQUENCY RANGE (-Z)**
**FG** 470-566 MHz

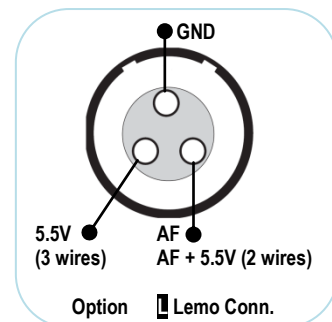
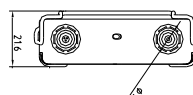
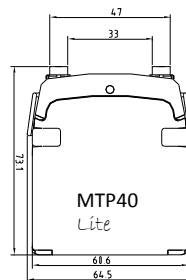
**FH** 542-640 MHz

**FI** 566-686 MHz

**FL** 678-798 MHz

**FK** 520-640 MHz

Ex. MTP40-L-BFG is 3 pins LEMO connector, black color and 470-566 Mhz frequency range


**Note:** MTP40 LITE transmitter complies with ETS 300 422