

-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 ▪ 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: ▪ <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 ▪ '2 wires + bias': gain selectable -20 ÷ +40 (-54 dBu ÷ + 6 dBu peak), 5.5 V on 4k7 bias supply ▪ '3 wires': gain selectable -40 ÷ +40 (-54 dBu ÷ +26 dBu peak) ▪ '2 wires & phantom': gain selectable -40 ÷ +40 (-54 dBu ÷ +26 dBu peak), ▪ '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 ENC (WisycOM Extended-NC), with independent Attack- and Recovery-time, voice optimized & with reduced pre-emphasys
AF bandwidth	▪ 45 Hz ÷ 21 KHz (3dB) ▪ 55 Hz ÷ 20 KHz (1dB)
Distortion	< 0.3 % (0.15 % typ.)
Signal-to-noise ratio	▪ typ. 115 dB (A) _{rms} with 40 kHz deviation ▪ typ. 121 dB (A) _{rms} with 56 kHz deviation
Led	Led indication with bicolor led (red & green) on wireless power switch: ▪ Wireless transmission status: <i>GREEN</i> on/off ▪ Modulation peek (if activated): <i>RED</i> ▪ Battery lifetime status: <i>GREEN</i> - <u>steady</u> (> 25%) - <u>slowly blinking</u> (< 25%) - <u>quickly blinking</u> (<12%) ▪ Ptt status: <i>RED</i> if active
Display	High contrast OLED (Organic light-emitting diode) bicolor display (96 x 36 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)
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 (2 AA alkaline)	▪ approx. 10 hours @ 50mW continuous working ▪ 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

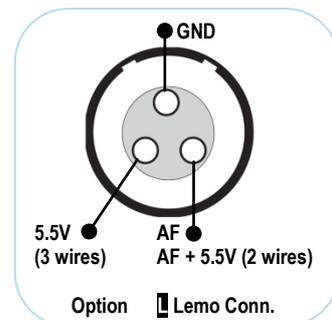
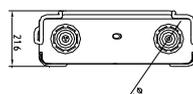
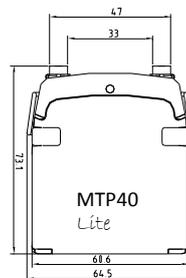
FH 542-640 MHz

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