

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

Main Features

- Up to 232 MHz bandwidth in 470/952 MHz range
- Enhanced robustness against self-interferences and antenna performances thru a proprietary “intermodulation cancellation” circuit (MTP40 only)
- Miniature design with flexible pcb (no connectors) for extended reliability
- Ultra-light metal alloy body (60g without batteries for MTP41)
- User selectable multi-companing systems:
 - ENR (noise optimized)
 - ENC (voice optimized)
- Battery:
 - MTP40: 2 AA Alkaline or rechargeable NiMH
 - MTP41: 1 AA Alkaline or rechargeable NiMH
- Autonomy:
 - MTP40: > 10h @ 50mW output power
 - MTP40: > 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 (MTP40 only)

**MTP40**

General Description

“MTP40 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 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

**MTP41**

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, depending on band (see below code table)
Frequencies	Quartz PLL frequency synthesizer circuit (25 kHz step)
Frequency stability	▪ $\pm 2,5$ ppm (in the rated temperature range)
Temperature range	-10 \pm +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 μ s pre-emphasis
Nominal deviation	± 40 kHz (Peak deviation = ± 56 kHz)
Telemetry feature	MTP40 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 \pm +40 (-54 dBu \pm +26 dBu peak), no bias voltage ▪ '2 wires + bias': gain selectable -20 \pm +40 (-54 dBu \pm + 6 dBu peak), 5.5 V on 4k7 bias supply ▪ '3 wires': gain selectable -40 \pm +40 (-54 dBu \pm +26 dBu peak) ▪ '2 wires & phantom': gain selectable -40 \pm +40 (-54 dBu \pm +26 dBu peak), ▪ '2 wires + bias & phantom': gain selectable -20 \pm +40, (-54 dBu \pm + 6 dBu peak), 5.5 V on 4k7 bias supply
AF input level	80 dB adjustable range from -60 dBu (775 μ V) 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 \pm 21 KHz (3dB) ▪ 55 Hz \pm 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 - steady</i> (> 25%) ▪ <i>slowly blinking</i> (< 25%) - <i>quickly blinking</i> (<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 <i>bars</i> (100%-87%-75%-63-50%-38%-25%) and " <i>empty bar</i> " 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)
MTP40 Battery life (2 AA alkaline)	▪ approx. 10 hours @ 50mW continuous working (5h MTP41) ▪ approx. 14 hours @ 10mW continuous working (7h MTP41)
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-XYZ-O:
- AUDIO CONNECTOR (-X)

- 3** 3 PIN LEMO CONNECTOR
(use FVB.00.303.NLAE24 on Mic)
- D** 2 PIN MICRODOT CONNECTOR

- FREQUENCY RANGE (-Z)

- 1** 470-640 MHz
- 2** 566-798 MHz
- 3** 510-698 MHz

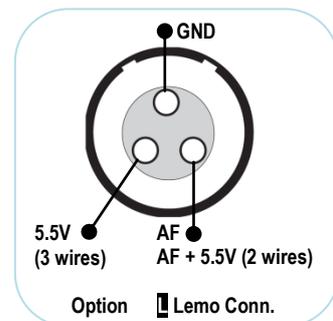
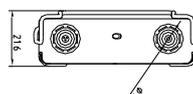
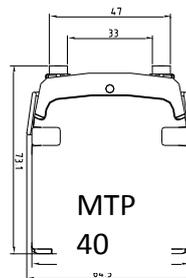
- COLOR (-Y)

- B** body color "matt black"
- P** body color "titanium gray" (ceramic coating)

- OTHER OPTIONS (-O)

- ADT** Compatible with dummy batt. pack

EXAMPLE: MTP40 LB1 is 3 pin LEMO connector, color matt black, and 470-638 MHz frequency range



Note: MTP40 transmitter complies with ETS 300 422