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

Main Features

- Up to 232 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-companding systems:
  - ENR (noise optimized)
  - ENC (voice optimized)

- Battery:
  MTP40S: 2 AA Alkaline, rechargeable NiMH or Lithium
  MTP41S: 1 AA Alkaline, rechargeable NiMH or Lithium

- Autonomy:

  > 10h @ 50mW output power
  (5h *MTP41S*)
  > 14h @ 10mW output power
  (7h *MTP41S*)

- 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 (*MTP40S* only)

- Input dynamic extension with an integrated HW limiter (30 dB above peak)

General Description

"MTP40S - MTP41S series are two 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 - MTP41S 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, quickly selectable with dedicated buttons
Switching window	Up to 232 MHz, depending on band (see *Variants* below)
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	▪ 10 mW (ERP) (to respect some local norm) ▪ 50 mW (ERP) (note: in some countries middle power can be disabled, for local norm!) ▪ 100 mW (ERP) (note: in some countries high power can be disabled, for local norm!) Only for MTP40S
Spurious emissions	< 2 nW
Modulation	wideband FM, with pre-emphasis
Nominal deviation	±40 kHz (Peak deviation = ±56 kHz)
Telemetry feature	It transmits also a digitally modulated sub-carrier, suitable for: ▪ *tone-squelch operating* ▪ *remote battery monitoring* ▪ *optional PTT (push to talk) operation*
AF input connector LEMO option	Configurable on 'mic' display menu in 5 options: ▪ *'2 wires'*: gain selectable -60 ÷ +40 (-54 dBu ÷ +26 dBu peak), no bias voltage ▪ *'2 wires + bias'*: gain selectable -60 ÷ +40 (-54 dBu ÷ + 6 dBu peak), 5.5 V on 4k7 bias supply ▪ *'3 wires*: gain selectable -60 ÷ +40 (-54 dBu ÷ +26 dBu peak) ▪ *'2 wires & phantom'* gain selectable -60 ÷ +40 (-54 dBu ÷ +26 dBu peak) ▪ *'2 wires + bias & phantom':* gain selectable -60 ÷ +40,(-54 dBu ÷ + 6 dBu peak), 5.5 V on 4k7 bias supply
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	▪ 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: ▪ Battery lifetime status: *GREEN* - steady (> 25%)
	   GREEN on/off - slowly blinking (< 25%) - quickly blinking (<12%)
	▪ Modulation peek (if activated & the limiter is disabled): ▪ Ptt status: *RED* if active
	   RED ▪ Limiter into action: Blue

Display	High contrast OLED (Organic light-emitting diode) white display (128 x 32 pixels) 8 step battery lifetime indication: 7 bars (100%-87%-75%-63-50%-38%-25%) and "empty bar" 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 (MTP40S)/1 AA size battery(MTP41S) (Alkaline, rechargeable NiMH or Lithium)
Battery life	MTP40S (with 2 AA alkaline) ▪ approx. 14 hours @ 10mW continuous working ▪ approx. 10 hours @ 50mW continuous working ▪ approx. 7 hours @ 100mW continuous working	MTP41S ▪ approx. 11 hours @ 50mW continuous working Lithium ▪ approx. 8 hours @ 50mW continuous working with NiMH ▪ approx. 4.5 hours @ 50mW continuous working with Alkaline
Dimensions	MTP40S: 73.1 x 64.5 x 21.6 mm (Height-Width-Depth) with clip	MTP41S: 58.2 x 64.5 x 21.7 mm (Height-Width-Depth) with clip
Weight	MTP40S: Approx. 85 g. without batteries (135g with batt.)	MTP41S: Approx. 80 g. without batteries (120g with batt.)

For the commercial code, see in the Variants area of the Products on our website

MTP40S

POWER PROFILE & COUNTRY FREQUENCY RANGE:

EU max power 50mW (Europe)
0W1 / **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:
ADT hole on battery housing for ADT40

VARIANTS:

▪ **AUDIO CONNECTOR**
LM 3 PIN LEMO CONNECTOR
DP 2 PIN DPA MICRODOT CONNECTOR

▪ **COLOR**
PV body color titanium gray (ceramic coating)
BL body color black (powder coating)

▪ **FREQUENCY RANGE**
B1 470-640 MHz
B2 566-798 MHz
B3 510-698 MHz

MTP41S

POWER PROFILE & COUNTRY FREQUENCY RANGE:

EU max power 50mW (Europe)
US max power 50mW (USA)
JP max power 10mW (Japan)
NZ max power 50mW (New Zealand)
AU max power 50mW (Australia)
CN max power 50mW (China)

VARIANTS:

▪ **AUDIO CONNECTOR**
LM 3 PIN LEMO CONNECTOR
DP 2 PIN DPA MICRODOT CONNECTOR

▪ **COLOR**
PV body color titanium gray (ceramic coating)
BL body color black (powder coating)

▪ **FREQUENCY RANGE**
B1 470-640 MHz
B2 566-798 MHz
B3 510-698 MHz

* MTP40S-0W1/MTP40S-EUX is not an SRD device, it requires specific authorization by your local frequency authority!

Note: MTP4x series transmitter complies with ETSI 300 422