

-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 <i>Variants</i> below)				
Frequencies	Quartz PLL frequency synthesizer circuit (25 kHz step)				
Frequency stability	• $\pm 2,5$ ppm (in the rated temperature range)				
Temperature range	-10 \div +55 °C				
Max RF power	<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • <i>tone-squelch operating</i> • <i>remote battery monitoring</i> • <i>optional PTT (push to talk) operation</i> 				
AF input connector LEMO option	Configurable on 'mic' display menu in 5 options: <ul style="list-style-type: none"> • '2 wires': gain selectable -60 \div +40 (-54 dBu \div +26 dBu peak), no bias voltage • '2 wires + bias': gain selectable -60 \div +40 (-54 dBu \div + 6 dBu peak), 5.5 V on 4k7 bias supply • '3 wires': gain selectable -60 \div +40 (-54 dBu \div +26 dBu peak) • '2 wires & phantom': gain selectable -60 \div +40 (-54 dBu \div +26 dBu peak) • '2 wires + bias & phantom': gain selectable -60 \div +40, (-54 dBu \div + 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	<ul style="list-style-type: none"> • 45 Hz \div 21 KHz (3dB) • 55 Hz \div 20 KHz (1dB) 				
Distortion	< 0.3 % (0.15 % typ.)				
Signal-to-noise ratio	<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • Wireless transmission status: <ul style="list-style-type: none"> GREEN on/off • Modulation peek (if activated & the limiter is disabled): RED • Battery lifetime status: GREEN - steady (> 25%) - slowly blinking (< 25%) - quickly blinking (<12%) • Ptt status: RED if active • 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	<table border="1"> <tr> <td>MTP40S (with 2 AA alkaline)</td> <td>MTP41S</td> </tr> <tr> <td> <ul style="list-style-type: none"> • approx. 14 hours @ 10mW continuous working • approx. 10 hours @ 50mW continuous working • approx. 7 hours @ 100mW continuous working </td> <td> <ul style="list-style-type: none"> • approx. 11 hours @ 50mW continuous working Lithium • approx. 8 hours @ 50mW continuous working with NiMH • approx. 4.5 hours @ 50mW continuous working with Alkaline </td> </tr> </table>	MTP40S (with 2 AA alkaline)	MTP41S	<ul style="list-style-type: none"> • approx. 14 hours @ 10mW continuous working • approx. 10 hours @ 50mW continuous working • approx. 7 hours @ 100mW continuous working 	<ul style="list-style-type: none"> • approx. 11 hours @ 50mW continuous working Lithium • approx. 8 hours @ 50mW continuous working with NiMH • approx. 4.5 hours @ 50mW continuous working with Alkaline
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Dimensions	<table border="1"> <tr> <td>MTP40S: 73.1 x 64.5 x 21.6 mm (Height-Width-Depth) with clip</td> <td>MTP41S: 58.2 x 64.5 x 21.7 mm (Height-Width-Depth) with clip</td> </tr> </table>	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		
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Weight	<table border="1"> <tr> <td>MTP40S: Approx. 85 g. without batteries (135g with batt.)</td> <td>MTP41S: Approx. 80 g. without batteries (120g with batt.)</td> </tr> </table>	MTP40S: Approx. 85 g. without batteries (135g with batt.)	MTP41S: Approx. 80 g. without batteries (120g with batt.)		
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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**
 - 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)

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* 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

