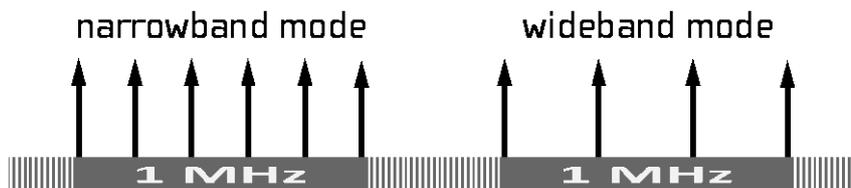


Main Features

- **Dual power amplifier & phase canceling configuration for intermodulation free operation**
- Wideband or Narrowband option available
- Ultra-light metal alloy body
- User selectable multi-companing systems:
 - ENR (noise optimized)
 - ENC (voice optimized)
- Infrared interface for management and firmware update
- Extended regulation on Mic input gain: 80dB in 1dB step
- 48V phantom power with PHA48 accessory
- Input dynamic extension with an integrated **HW limiter (30 dB above peak)**
- **LINEAR** feature @20L power setting: allows **EVENLY SPACED** frequency allocation intermodulation free



Example for 1 DVBT (6 MHz)

- 250kHz space → 25 Mic (narrowband option)
- 350kHz space → 18 Mic (wideband)
- Battery: 2 AA Alkaline, rechargeable NiMH or Lithium
Autonomy (Alkaline): > 10h @ 50mW, > 7h @ 20L mW (intermod free operation)
- Max input level 26dBu (15.5 V clipping) to connect directly to mixers and instruments

General Description



*“MTP40S-USX **LINEAR** series is an 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-USX **LINEAR** benefits also of the latest Wisycom RF technology along with an **enhanced robustness against noise and inter-modulation.**

TECHNICAL SPECIFICATIONS

Frequency ranges	B7 band: 470 ÷ 663 MHz
Switchable channels	2400 managed in 40 groups of 60 frequencies completely user customizable
Switching-window	193 MHz
Frequencies	Quartz PLL frequency synthesizer circuit (25 kHz step)
Frequency error	± 2.5 ppm, in the rated temperature range
RF Power	switchable typ. 20 / 20L(=20mW LINEAR) / 50 / 100 mW
Modulation	FM, with pre-emphasis
Nominal deviation	±40 kHz Wideband (±25 kHz Narrowband option)
Peak deviation	±56 kHz Wideband (±35 kHz Narrowband option)
Spurious emissions	< 2 nW
Telemetry feature	TX transmits also a digitally modulated sub-carrier, suitable for: <ul style="list-style-type: none"> ▪ tone-squelch operating ▪ remote battery monitoring ▪ optional PTT (push to talk) operation
Noise Reduction system	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) Wideband with LPF at 20KHz 45 Hz ÷ 17 KHz (3dB), 55 Hz ÷ 15 KHz (1dB) Narrowband with LPF at 15kHz
Distortion	< 0.3 % (0.15 % typ.)
SND/D ratio (Analogue)	typ. 115 dB (A)rms with 40 kHz deviation ▪ typ. 121 dB (A)rms with 56 kHz deviation Wideband typ. 115 dB (A)rms with 25 kHz deviation ▪ typ. 121 dB (A)rms with 35 kHz deviation Narrowband
Audio input connector	LEMO or DPA, gain selectable -60 ÷ +40dB LEMO connector configurable on 'mic' display menu in 5 options: <ul style="list-style-type: none"> ▪ '2 wires': -54 dBu ÷ +26 dBu peak, no bias voltage ▪ '2 wires + bias': -54 dBu ÷ + 6 dBu peak, 5.5 V on 4k7 bias supply ▪ '3 wires': -54 dBu ÷ +26 dBu peak ▪ '2 wires & phantom': -54 dBu ÷ +26 dBu peak ▪ '2 wires + bias & phantom': -54 dBu ÷ + 6 dBu peak, 5.5 V on 4k7 bias supply DPA connector (2 pin microdot audio connector) configurable only <ul style="list-style-type: none"> ▪ '2 wires': -54 dBu ÷ +26 dBu peak, no bias voltage ▪ '2 wires+bias': -54 dBu ÷ + 6 dBu peak, 5.5 V on 4k7 bias supply
Audio input level	from -54 dBu (775 uV) 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
Managing interface	IrDA
LED	RGB led indication with (red, green and blue) on wireless power switch: <ul style="list-style-type: none"> ▪ Wireless transmission status: GREEN on/RED off ▪ Battery lifetime status: GREEN steady (> 25%), slowly blinking (< 25%), quickly blinking (<12%) ▪ Modulation peek (if activated & the limiter is disabled): RED ▪ Ptt status: RED if active ▪ Limiter into action: Blue
Battery lifetime indication	8 steps : 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
Display	High contrast OLED white display (128 x 32 pixels)
Power supply	2 AA size cell (Alkaline, rechargeable NiMH or Lithium)
Power consumption	250mA@ 2.6V average (display off, 100mW power)
Battery life	with 2 AA alkaline <ul style="list-style-type: none"> ▪ approx. 12 hours @ 20mW continuous working ▪ approx. 10 hours @ 50mW continuous working ▪ approx. 7 hours @ 100mW and 20L(=20mW LINEAR) continuous working
Temperature range	-10 ÷ +55 °C
Dimensions	73.1 x 64.5 x 21.6 mm (HxWxD) with clip
Weight	Approx. 85 g. without batteries (135g with batt.)

SKU: MTP40S-USX_B7-<Color>-<AudioConnector>-LI-[OPTION]

▪ Color

BL color black
PV color titanium grey

▪ AudioConnector

LM LEMO CONNECTOR 3 PIN
DP DPA MICRODOT CONNECTOR 2 PIN

▪ [OPTION]

NB NARROW BAND