

# MU 1-X/..., MU 1-CX/..., MU 1-XG/..., MU 1-MM/...

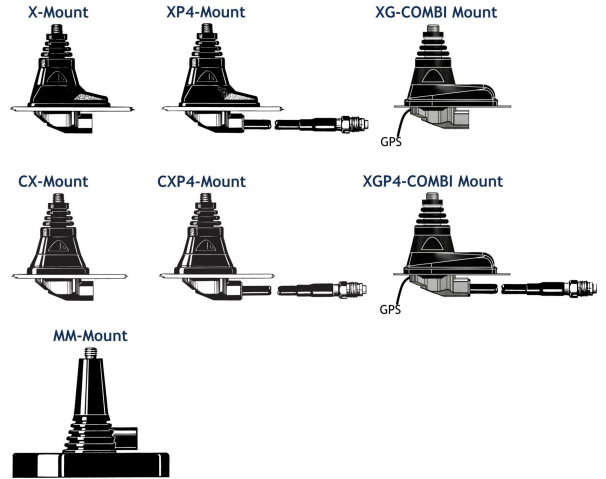
## Unity Gain $\frac{1}{4}$ $\lambda$ Mobile Antenna for the 450 MHz Band

### DESCRIPTION

- Black-chromed stainless steel whip.
- Type MU 1-X/s covers 370 – 410 MHz  
Type MU 1-X/l covers 406 – 440 MHz  
Type MU 1-X/h covers 430 – 470 MHz  
– no tuning required.
- Stainless steel X-mount with M6-thread whip-fastening system.
- Simple mounting exclusively with access from the outside.
- Models available with X-mount (oblong), CX-mount (circular), XG-Combi mount (oblong with GPS) and MM-mount (magnetic).
- Choose between four connection possibilities:
  - X-mount, CX-mount, MM-mount: FME-connection (supplied without cable).
  - XP4-mount, CXP4-mount: Permanently attached 4 m cable terminated with FME-connector.
  - XG-Combi mount: FME-connection and GPS (supplied without cable).
  - XGP4-Combi mount: Permanently attached 4 m cable terminated with FME-connector for whip and 0.15 m RG 178 with MFME for GPS.
- Easily removable whip for car wash.
- GPS-antenna for fixed installations.
  - Full hemispherical coverage.
  - Built-in high-gain, low-noise amplifier.
  - Right-Hand Circular Polarization (RHCP).**
  - 2.85 V - 5 V supply voltage (typical 3 V).



All whips are compatible with all mounts.



### ORDERING DESIGNATIONS

TYPE	FREQUENCY	MOUNT VERSION	PRODUCT NO.
MU 1-X/s	370 - 410 MHz	X-mount (oblong) with FME-system	130000866
MU 1-X/l	406 - 440 MHz	Same mount as above	130000858
MU 1-X/h	430 - 470 MHz	Same mount as above	130000862
MU 1-CX/s	370 - 410 MHz	CX-mount (circular) with FME-system	130000867
MU 1-CX/l	406 - 440 MHz	Same mount as above	130000861
MU 1-CX/h	430 - 470 MHz	Same mount as above	130000859
MU 1-XG/s	370 - 410 MHz	X-mount (oblong) with FME-system and GPS	130002073
MU 1-XG/l	406 - 440 MHz	Same mount as above	130002074
MU 1-XG/h	430 - 470 MHz	Same mount as above	130002075
MU 1-XP4/s	370 - 410 MHz	XP4-mount (oblong) with 4 m cable and FME-connector	130000869
MU 1-XP4/l	406 - 440 MHz	Same mount as above	130000855
MU 1-XP4/h	430 - 470 MHz	Same mount as above	130000857
MU 1-CXP4/s	370 - 410 MHz	CXP4-mount (circular) with 4 m cable and FME-connector	130000868
MU 1-CXP4/l	406 - 440 MHz	Same mount as above	130000863
MU 1-CXP4/h	430 - 470 MHz	Same mount as above	30000853
MU 1-XGP4/s	370 - 410 MHz	XP4-mount (oblong) with 4 m cable, FME-connector and GPS	130002076
MU 1-XGP4/l	406 - 440 MHz	Same mount as above	130002077
MU 1-XGP4/h	430 - 470 MHz	Same mount as above	130002078
MU 1-MM/s	370 - 410 MHz	MM-mount (magnetic) with FME-system	130000849
MU 1-MM/l	406 - 440 MHz	Same mount as above	130000850
MU 1-MM/h	430 - 470 MHz	Same mount as above	130000851

## SPECIFICATIONS

ELECTRICAL	
MODEL	MU 1-X/..., MU 1-CX/..., MU 1-XG/..., MU 1-MM/...
ANTENNA TYPE	¼ λ mobile whip antenna
FREQUENCY	450 MHz-band covered by three models
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Vertical
GAIN	0 dB (acc. to EIA RS-329-1)
BANDWIDTH	≥ 45 MHz @ SWR ≤ 1.5
SWR	≤ 1.2 @ f. res.
MAX. POWER	100 W
MECHANICAL	
MATERIALS	<b>Whip:</b> Stainless steel and black-chromed brass <b>Mount:</b> Black-chromed brass Weather- and shockproof plastics Stainless steel
RECOMMENDED INSTALLATION TORQUE	4 ± 1 Nm
COLOUR	Black
HEIGHT	Approx. 180 mm
WEIGHT	X-version: Approx. 60 g XP4-version: Approx. 200 g CX-version: Approx. 60 g CXP4-version: Approx. 200 g XG-version: Approx. 80 g XGP4-version: Approx. 220 g MM-version: Approx. 290 g
MOUNTING	18 mm dia. hole

## INSTALLATION AND ASSEMBLY INSTRUCTIONS

Please refer to the data sheet of each individual mount to find the installations and assembly instruction.

### TUNING/MODEL CONVERSION

- The antenna is delivered factory-tuned and requires no further tuning.
- To convert an MU 1-X/s model into an MU 1-X/l model, cut off 15 mm of the top end of the whip.
- To convert an MU 1-X/l model into an MU 1-X/h model, cut off 11 mm of the top end of the whip.

### PLEASE NOTE

For safety reasons: When using the MU 1-MM, car speed must not exceed 140 km/h.



PROCOM A/S reserve the right to amend specifications without prior notice.

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