

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

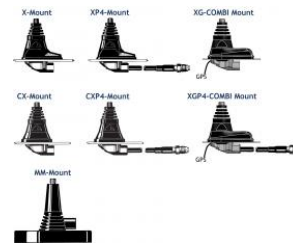
- > Black-chromed stainless steel whip.
- > MU 1-X/... cover a large frequency range from 370 - 470 MHz. (See Ordering Designations.)

DESCRIPTION

- > 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).



The whip is compatible with all below 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/sl	380 - 430 MHz	Same mount as above	130002284
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/sl	380 - 430 MHz	Same mount as above	130002285
MU 1-CX/l	406 - 440 MHz	Same mount as above	130000861
MU 1-CX/h	430 - 470 MHz	Same mount as above	130000859

TYPE	FREQUENCY	MOUNT VERSION	PRODUCT NO.
MU 1-XG/s	370 - 410 MHz	XG-Combi mount (oblong) with FME-system and GPS	132000200
MU 1-XG/sl	380 - 430 MHz	Same mount as above	130002286
MU 1-XG/l	406 - 440 MHz	Same mount as above	132000201
MU 1-XG/h	430 - 470 MHz	Same mount as above	132000202
MU 1-XP4/s	370 - 410 MHz	XP4-mount (oblong) with 4 m cable and FME-connector	130000869
MU 1-XP4/sl	380 - 430 MHz	Same mount as above	130002287
MU 1-XP4/l	406 - 440 MHz	Same mount as above	130000855
MU 1-XP4/h	430 - 470 MHz	Same mount as above	130000857

TYPE	FREQUENCY	MOUNT VERSION	PRODUCT NO.
MU 1-CXP4/s	370 - 410 MHz	CXP4-mount (circular) with 4 m cable and FME-connector	130000868
MU 1-CXP4/sl	380 - 430 MHz	Same mount as above	130002288
MU 1-CXP4/l	406 - 440 MHz	Same mount as above	130000863
MU 1-CXP4/h	430 - 470 MHz	Same mount as above	130000853
MU 1-XGP4/s	370 - 410 MHz	XGP4-Combi mount (oblong) with 4 m cable, FME-connector and GPS	132000205
MU 1-XGP4/sl	380 - 430 MHz	Same mount as above	130002289
MU 1-XGP4/l	406 - 440 MHz	Same mount as above	132000206

TYPE	FREQUENCY	MOUNT VERSION	PRODUCT NO.
MU 1-MM/s	370 - 410 MHz	MM-mount (magnetic) with FME-system	130000849
MU 1-MM/sl	380 - 430 MHz	Same mount as above	130002290
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	Models within 370 - 470 MHz
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Vertical
GAIN	0 dB (acc. to EIA RS-329-1)
BANDWIDTH	≥ 45 MHz @ SWR < 1,5 ≥ 50 MHz @ SWR < 2.0
SWR	≤ 1.2 @ f.res.
MAX. POWER	100 W

MECHANICAL	
MATERIALS	Whip: Stainless steel and black-chromed brass Mount: 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

INSTALLATION AND ASSEMBLY INSTRUCTIONS

Please refer to the data sheet of each individual mount to find the installation and assembly instructions.

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.