

2 channel compact Mobile Control Unit (MCU) for the extended TETRA band

DESCRIPTION

- The PRO-MCU380-EXT-2 combiner provides the possibility of connecting up to two TETRA extended band radio heads or radios into one common antenna.
- The PRO-MCU380-EXT-2 works in the full Tetra extended band Tx low 380-386.5 MHz & Rx high 390-396.5 MHz.
- All PRO-MCU units are designed for single carrier signal per port and thus it is not recommended to add a multiple carrier signal on the input ports, as this could potentially create unwanted intermodulation products transmitted on the antenna port and reflected on the input ports.
- The smallest and most compact design on the market.
- The MCU combiner is the successor to the PRO-ISO-PHY-TETRA-2
- The isolation between all Tx/Tx, Tx/Rx & Rx/Rx ports are rated to 60 dB, but will typically have a higher isolation than 60 dB.
- The use of high-quality system components such as highly selective helical duplex filters and high-performance isolators provides the high isolation, a low insertion loss and secure a overall stable communication.
- Suitable as here for mobile centers (Mobile Control Stations), and in a reverse model for stationary use (Base Stations).
- Also available in a tray 19" x 2HU x 300 mm for rack mounting. Please ask Customer Service for availability.
- The MCU combiner secures an ETSI compliant connection.
- Vibration and shock tested in accordance with EN-60068**.



**Tested in accordance with:
 Random test: EN 60068-2-64, test specification: EN 300 019-2-5 V3.0.0.
 Shock test: EN 60068-2-27, test specification: EN 300 019-2-5 V3.0.0.
 Bump test: EN 60068-2-29, test specification: EN 300 019-2-5 V3.0.0.

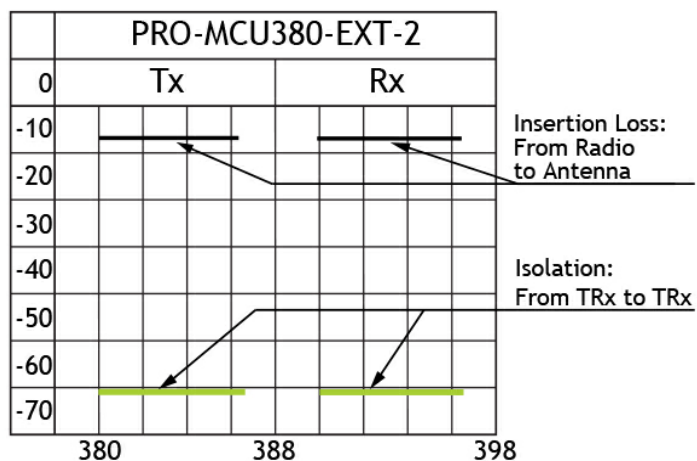
SPECIFICATIONS

Electrical	
Model	PRO-MCU380-EXT-2
Frequency	Tx : 380 - 386.5 MHz / Rx : 390 - 396.5 MHz
Max. Input Power	25 W per port
Insertion Loss Tx-Ant.	< 6.6 dB (typ. 6.2 dB)
Insertion Loss Rx-Ant.	< 6.6 dB (typ. 6.2 dB)
Isolation TRx - TRx	≥ 60 dB
VSWR	< 1.5:1
Group Delay Variation	TX-ANT. < 120 nsec. RX-ANT. < 150 nsec.
No. of ports	2 TMO (Tx/Rx)
Mechanical	
Connection(s)	N(f)
Colour	Black
Dimensions	230 (excl. conn. 25 mm) x 256 x 71.4 mm / 9.06 (excl. conn. 0.98 in.) x 10.08 x 2.81 in.
Weight	5.1 kg / 11.24 lb.
Environmental	
Ingress Protection	IP62

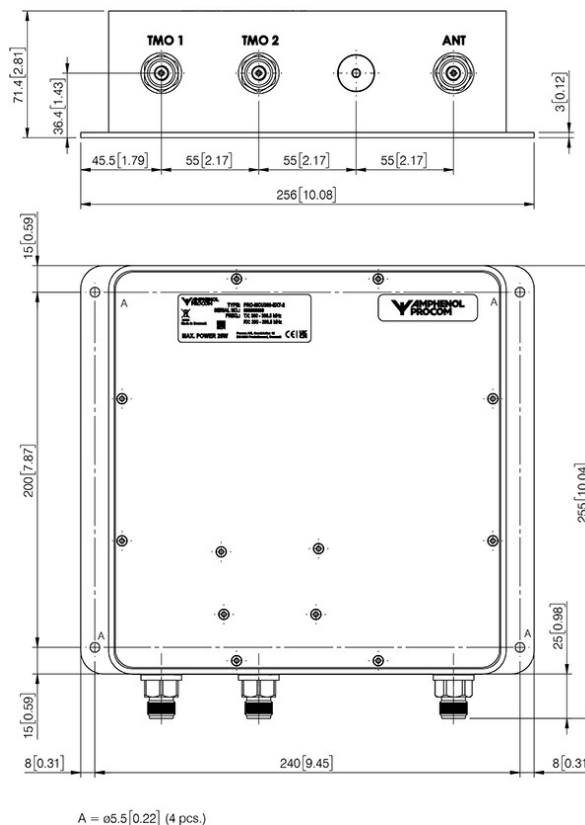
ORDERING

Model	Product No.	Frequency
PRO-MCU380-EXT-2-N(f)	TBC	Tx: 380 - 386.5 MHz / Rx: 390 - 396.5 MHz

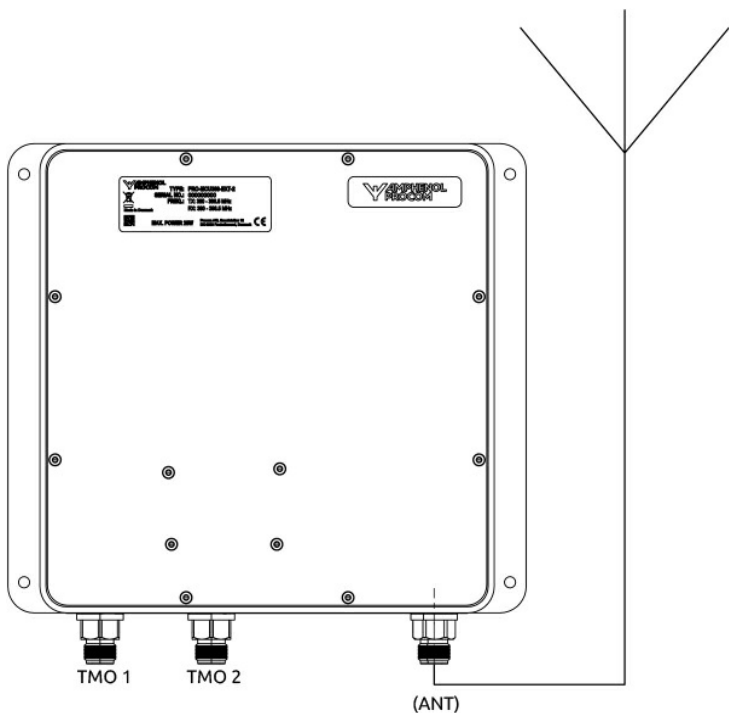
TYPICAL ATTENUATION VALUES



MOUNTING DETAILS



CONNECTION DIAGRAM



All dimensions are given in mm [in.]