



PRO-MCU380-EXT-2

2 channel compact Mobile Combiner 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 couplers are designed for combining radios, each of which transmits a single carrier. When used for combining more repeaters which transmit simultaneously several Tx-carriers on a single port, the Tx-frequency combinations must be checked to avoid unwanted intermodulation products in the Rx band. This is to ensure that the used carriers do not create unwanted intermodulation products at the exact Rx-carrier frequencies, which could be reflected to the port of the repeaters and interfere with the wanted Rx signal.
- 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 ensures a stable overall communication.
- Suitable as here for mobile centers (Mobile Control Stations), and in a reverse model for stationary use (Base Stations).
- Also available with 19" front plate, black, for rack mounting.
- See "Accessories".
- The MCU combiner ensures 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

SPECIFICATION

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 channels	2 TMO (Tx/Rx)

ENVIRONMENTAL

Ingress Protection	IP62
--------------------	------

MECHANICAL

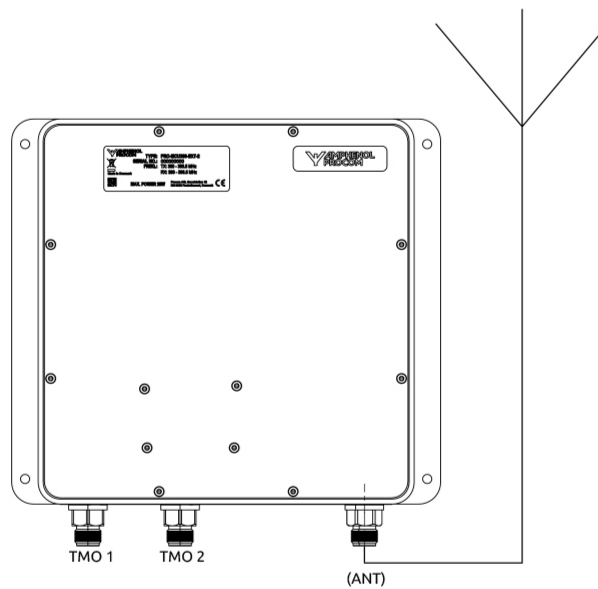
Connection(s)	N(f)
Colour	Black
Historic Brand	Amphenol Procom
Dimensions	230 (excl. conn. 25 mm) x 256 x 71.4 mm / 9.06 (excl. conn. 0.98 in.) x 10.08 x 2.81 in.
Weight	5.1 kg / 11.24 lb.

ORDERING CODES

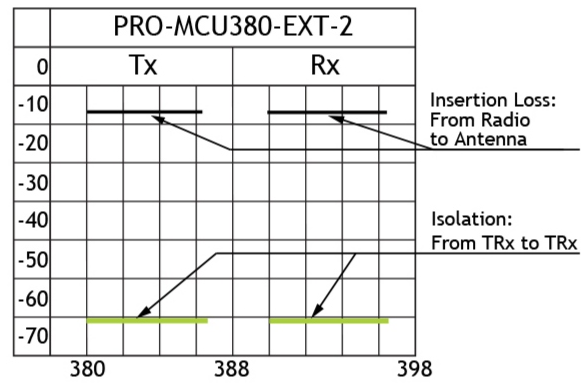
MODEL	PRODUCT NO.
2 channel compact Mobile Combiner Unit (MCU) for the extended TETRA band	210002929

ADDITIONAL INFORMATION

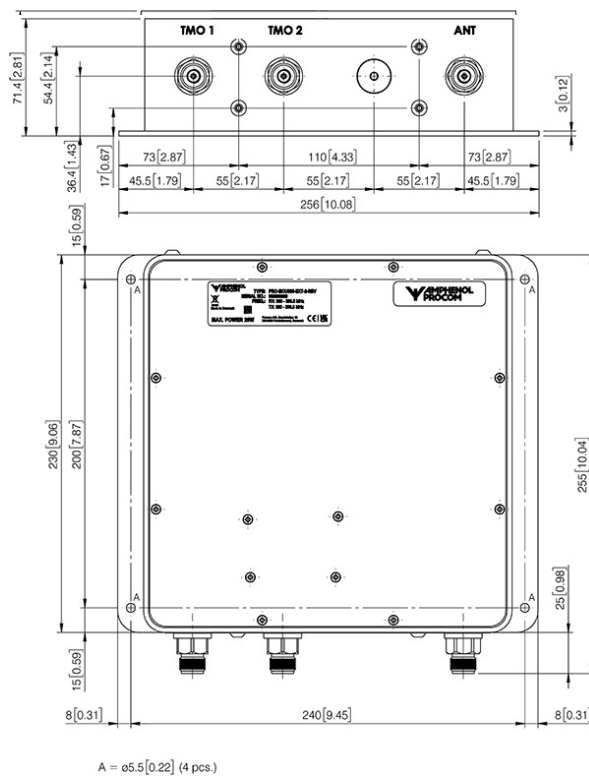
Connection Diagram



Typical Attenuation Values



Mounting Details



All dimensions are given in mm [in.]

19" Front plate black with connectors in front (210003008)



19" Front plate black with connectors in back (210003009)



*** Please note**

The front plates are delivered in a separate packaging with extra screws for mounting on the combiner.