

PRELIMINARY DATA SHEET

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

DESCRIPTION

- > The PRO-MCU380-EXT-4 combiner provides the possibility of connecting up to four TETRA extended band radio heads or radios into one common antenna.
- > The PRO-MCU380-EXT-4 works in the full Tetra extended band Tx low 380 - 386.5 MHz and 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-4
- > 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.



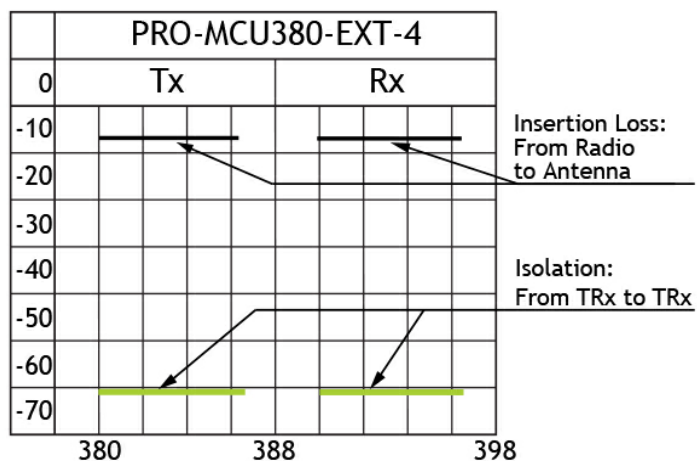
SPECIFICATIONS

Electrical	
Model	PRO-MCU380-EXT-4
Frequency	Tx : 380 - 386.5 MHz / Rx : 390 - 396.5 MHz
Max. Input Power	25 W per port
Insertion Loss Tx-Ant.	< 9.6 dB (typ. 9.2 dB)
Insertion Loss Rx-Ant.	< 9.6 dB (typ. 9.2 dB)
Isolation TRx - TRx	≥ 60 dB
VSWR	< 1.5:1
Group Delay Variation	Tx-ANT. < 120 nsec. Rx-ANT. < 150 nsec.
No. of channels	4 TMO (Tx/Rx)
Mechanical	
Connection(s)	N(f)
Colour	Black
Dimensions	230 (excl. conn. 25 mm) x 300 x 70 mm / 9.06 (excl. conn. 0.98 in.) x 11.81 x 2.76 in.
Weight	Approx. 6.79 kg / 14.97 lb.
Environmental	
Ingress Protection	IP62

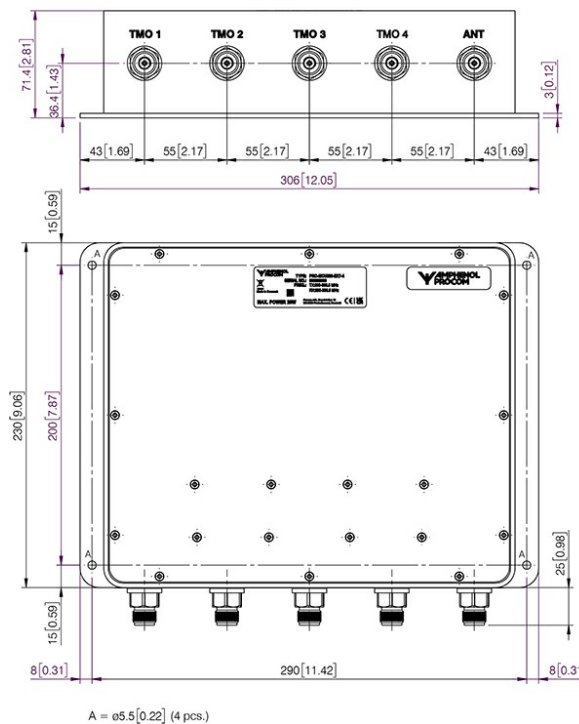
ORDERING

Model	Product No.	Frequency
PRO-MCU380-EXT-4-N(f)	TBC	Tx: 380 - 386.5 MHz / Rx: 390 - 396.5 MHz

TYPICAL ATTENUATION VALUES



MOUNTING DETAIL



All dimensions are given in mm [in.]

CONNECTION DIAGRAM

