



PRO-MCU380-EXT-3

3 channel compact Mobile Combiner Unit (MCU) for the extended TETRA band



DESCRIPTION

- The PRO-MCU380-EXT-3 combiner provides the possibility of connecting up to three TETRA extended band radio heads or radios into one common antenna.
- The PRO-MCU380-EXT-3 works in the full Tetra extended band Tx low 380 – 386.5 MHz and 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 secure 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-3
- 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 high isolation and secure a stable 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 secures an ETSI compliant connection.
- Vibration and shock tested in accordance with EN-60068
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- 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-3
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	3 TMO (Tx/Rx)

ENVIRONMENTAL

Ingress Protection	IP62
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MECHANICAL

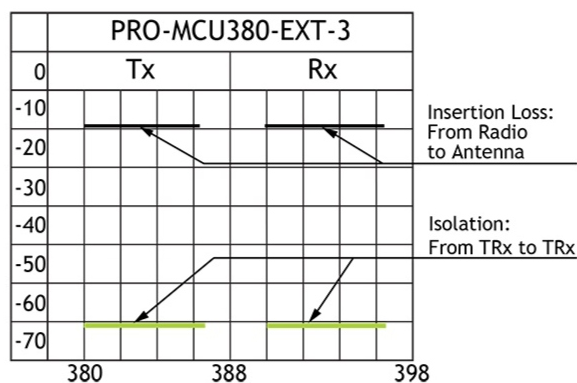
Connection(s)	N(f)
Colour	Black
Historic Brand	Amphenol Procom
Dimensions	230 (excl. conn. 25 mm) x 306 x 71.4 mm / 9.06 (excl. conn. 0.98 in.) x 12.04 x 2.81 in.
Weight	Approx. 6.79 kg / 14.97 lb.

ORDERING CODES

MODEL	PRODUCT NO.
3 channel compact Mobile Combiner Unit (MCU) for the extended TETRA band	210002945

ADDITIONAL INFORMATION

Typical Attenuation values



Connection Diagram

