

## Tactical Communication Solutions

*Promarine's tactical communication products are specially designed for fast and small patrol vessels. They allow the installation of multiple radios without increasing the amount of antenna and thus risking vessel's mission capabilities.*



proFIL 4120 and proFIL 4211 are designed to be used with tactical wideband antennas ranging from 30MHz up to 512MHz. Their low loss design enables the use of high power transmitters simultaneously.

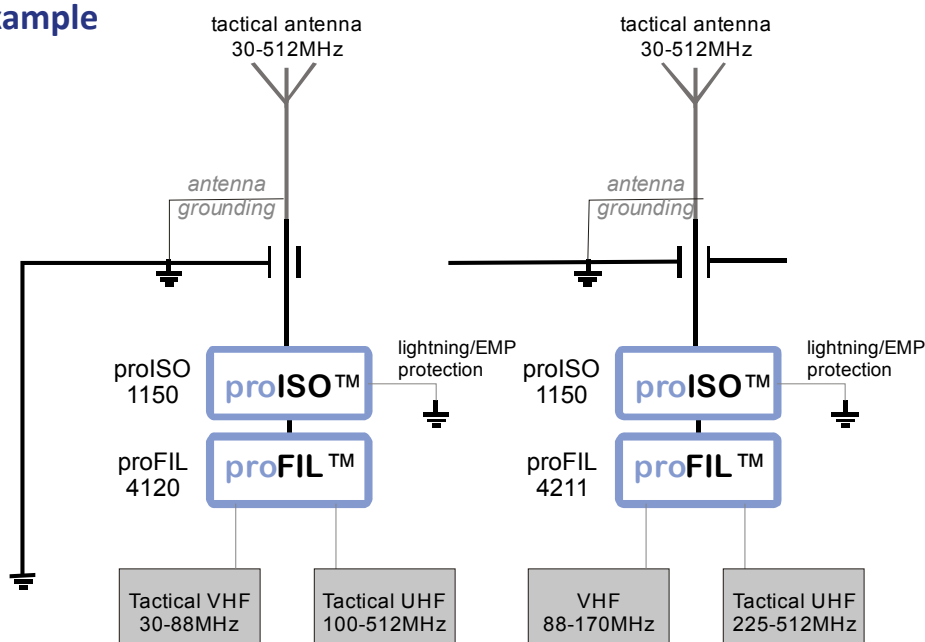
proISO 1150 combined galvanic isolator and lightning protector protects communication system from lightning strikes, EMPs, interference and static discharges. It also protects vessel's metal hull from corrosion caused by DC-ground leaks.

Combining several transmitters and receivers to single antennas by using advanced proFIL™ technology creates instant advantages. Risks that are avoided immediately are:

- reduced co-site interference
- reduced intermodulation
- saved space
- reduced overheating



## Connection example



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Electrical Specifications (TA=25°C)			
Product	<b>proFIL</b> Tactical Communication Combiners		<b>proISO 1150</b> Tactical Communication Galvanic Isolator and Lightning protector
Model	FIL4120	FIL4211	GLI1150
Type	Medium isolation / high power antenna combiner		Capacitively coupled galvanic isolator/ DC-block with integrated lightning protector
RF specification			
Standard frequency range	30-80MHz / 108-400MHz	80-170MHz / 225-400MHz	30-512MHz
Extended frequency range	30-80MHz / 100-512MHz	30-170MHz / 225-512MHz	1MHz – 1GHz
RF-specification (standard range)	RL: <-20dB (avg) Loss: < 1.0dB Isolation: < 35dB POWER: 150W		RL: <-25dB (average) Loss: < 0.5dB POWER: 250W
RF-specification (extended range)	RL: <-10dB (avg) Loss: < 1.5dB Isolation: < 20dB POWER: 150W		RL: <-20dB (average) Loss: < 1.0dB POWER: 150W
Lightning protection	n/a		threshold voltage: 230V surge capability: 10kA (according to IEC61000-4-5) non replaceable

Mechanical & Environmental specifications		
Product	N-female connectors Material: Aluminum Connector chassis and case grounded	N-female connectors Material: Aluminum Connector chassis and case isolated
Environment	0°-40°C non condensing	-20°- 60°C non condensing IP65
Size	150 x 150 x 60 mm	w&h: 42 x 42 mm, body length 130 mm, length with cables 300 mm
Mounting	M4 holes on bottom lid, wall mount	hanging, cable rail
Options	n/a	ACC2001: DIN RAIL / WALL MOUNT CLIP

