BRANCHING UNIT VHF 4 TX AND 4 RX COMBINER + 2X 4WAYS GNSS RECEIVER + VSWR Meter Arrangement

POLOMARCONI offers a very wide range of wireless products. Our products can be tailored according to the customer's need.

PMR

T06990530-121

Electrical Specifications				
Frequency band (MHz)		154 ÷ 165		
Impedance (Ω)		50		
VSWR (all ports)		≤ 1.5:1		
[*] Duplex Spacing (MHz) (between Rx and Tx bandpass center)	4		
Tx - Tx spacing (MHz)		≤ 1.5		
Rx - Rx spacing (MHz)		≤ 1.5		
[**] Max Tx Power (W)		50		
Max Rx CW Incident Power (dBm) without damage		+27		
Max Rx Power working (dBm) in compression mode		+10		
Tx Insertion Loss (dB)		≤ 10		
Rx Gain (dB)	ANT – Rx Ou	ut 2 (+0,-1)		
Input IP 3rd order (dBm)		≥ 15		
Noise Figure (dB)	ANT – Rx Ou	ut ≤ 4.7		
Power Supply (V _{DC})		10÷15		
Isolation (dB) (in Tx or Rx l		≥ 60 ≥ 25 ≥ 47 750 kHz ≥ 80 1.5 MHz ≥ 73		
Current Consumption (mA)	@ 12 V _{DC}	≤ 300		

Guglie

POLOMARCONI.IT

[*] Please specify TX and RX frequencies when ordering [**] No degradation with 4Tx @ 50W each. No Branching Unit damage in case of fully mismatched Antenna Output with 4Tx @50W CW

GNSS Receivers

Support GLONASS L1/L2/L3, BeiDou L1, GPS L1/L2/L5 Bands			
[*] Output Supply (V_{DC}) on GNSS Antenna Connectors		+5 (max 50mA)	
VSWR	ANT	≤ 2.3:1	
	Rx _i	≤ 1.5:1	
Rx Gain (dB)		4±2	
LNA Noise Figure (dB)		≤ 3.2	
Isolation (dB)	Rx – Rx Rx – ANT	≥ 25 ≥ 30	
Input 1 dB compression point (dBn	n)	≥ - 10	
Outputs		AC coupled	

[*] A condition of Short Circuit on GPS Antenna Input must not influence the other GPS Splitter (if present) nor on the LNA

Mechanical Specifications

RF Connectors	Tx _i , ANT Rx _i GNSS (ANT, RXi)	5 x Nf 4x SMAf 10x SMAf
DC Connector	4 x 2-p	in PCB Header
VSWR Data BUS		RJ45
Dimensions	4U ×	19″ × 462mm
Weight (kg)		< 22
Front Panel Colour		RAL 7031

Made in Italy. We reserve the right to modify these data without any notice.

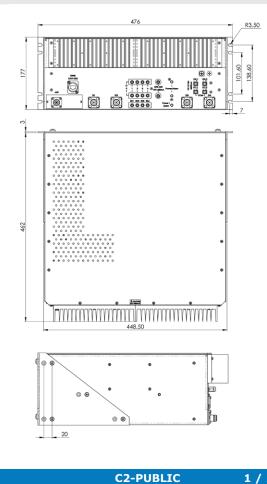




Environmental Specifications

Operating Temp. Range (°C)	0 ÷ +50
Storage Temp. Range (°C)	-40 ÷ +70

Dimensions (mm)



Data Sheet Rev. 01 - 22/09/2023

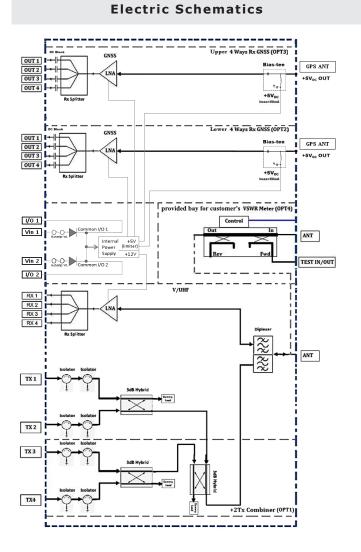
1/2



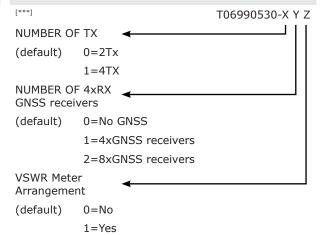
BRANCHING UNIT VHF 4 TX AND 4 RX COMBINER + 2X 4WAYS GNSS RECEIVER + VSWR Meter Arrangement

POLOMARCONI offers a very wide range of wireless products Our products can be tailored according to the customer's need. T06990530-121

PMR



ORDERING CODE



[***] T06990530 without suffix is default. Example code: T06990530-121 "Branching Unit VHF 4 TX and 4 RX Combiner + 2x 4Ways GNSS receiver + VSWR Meter Arrangement"