

# ALL. 1

## SPECIFICHE RICEVITORE DI MISURA E ANTENNA RADIOGONIOMETRICA (DF)

Di seguito si riportano le specifiche tecniche del Ricevitore di misura, opzioni ed Antenna Radiogoniometrica (DF) di cui si intende verificare l'infungibilità. Il Ricevitore deve consentire l'utilizzo degli accessori, delle antenne Rohde & Schwarz e la completa compatibilità e funzionalità con il *software* ARGUS ©, coperto da privativa industriale Rohde & Schwarz, già in dotazione agli Ispettorati Territoriali della DGSCERP.

### SPECIFICHE RICEVITORE R&S ESME

R&S ESME			
Frequency range	base unit		20 MHz to 6 GHz
with R&S®ESME-HF option		8 kHz to 6 GHz	
with R&S®ESME-HF and R&S®ESME-MW18 options		8 kHz to 18 GHz	
external R&S®MC40 microwave downconverter 1)		up to 40 GHz	
Real-time bandwidth	in HF		up to 20 MHz
in VHF/UHF with R&S®ESME-ADC2 and R&S®ESME-WB options		up to 80 MHz	
demodulation and measurement path		up to 20 MHz	
Scan speed	with R&S®ESME-PS and R&S®ESME-WB options		up to 110 GHz/s at 2000 kHz resolution bandwidth
40 Gbit I/Q Interface	with R&S®ESME-DIQ and R&S®RX-40G options		I/Q streaming up to 80 MHz bandwidth
<b>Optional AOA direction finding</b>		with R&S®ESME-DF option	
Frequency range DF	base unit		20 MHz to 6 GHz
with R&S®ESME-HF option		300 kHz to 6 GHz	
with R&S®ESME-MW18 option		20 MHz to 8.2 GHz	
with R&S®ESME-HF and R&S®ESME-MW18 options		300 kHz to 8.2 GHz	
Real-time bandwidth DF	for wideband DF		up to 20 MHz
Instrument DF accuracy		0.2° RMS (typ.)	
System DF accuracy (with lightning protection installed)	80 MHz to 1.3 GHz		0.5° RMS (typ.)
20 MHz to 80 MHz and 1.3 GHz to 6 GHz		1° RMS (typ.)	

### Configurazione ricevitore per Stazione di TIPO 1

Frequency Range	8 KHz to 6 GHz	HF option R&S®ESME-HF
Real-time bandwidth	20 MH IN HF, Up to 80 MHZ	R&S®ESME-WB options
Internal GNSS module	GPS, GLONASS, BeiDou	R&S®ESME-IGT2 options
Panorama Scan	Option	R&S®ESME-PS
ITU measurement software	Option	R&S®ESME-IM
Zero span	Option	R&S®ESME-ZS
19" rack adapter	Option	R&S®ZZA-411

### Configurazione ricevitore per Stazione di TIPO 2

Frequency Range	8 KHz to 6 GHz	R&S®ESME-HF options
Direction finder upgrade kit	20 MHz to 6 GHz	R&S®ESME-DF
DF error correction		R&S®ESME-COR
Real-time bandwidth	20 MH IN HF, Up to 80 MHZ	R&S®ESME-WB options
Internal GNSS module	GPS, GLONASS, BeiDou	R&S®ESME-IGT2 options
Panorama Scan	Option	R&S®ESME-PS
ITU measurement software	Option	R&S®ESME-IM
Zero span	Option	R&S®ESME-ZS
19" rack adapter	Option	R&S®ZZA-411

## SPECIFICHE ANTENNA DF R&S ADD 597

Frequency Range	20 MHz to 8,5 GHz	Vertical
	20 MHz to 7,5 GHz	Horizontal
Polarization	Vertical/Horizontal	switchable
DF accuracy (typ.)	1° RMS	
DF Method	Correlative interferometer	
Nr of DF antenna elements	VHF/UHF	9 elements per antenna array
	UHF/SHF	8 elements per antenna array
Antenna elements	active/passive	switchable
Lightning protection	Integrated	
Electronic compass	Option	