



WORLD MOBILE

Datasheet

Radio 4480 44B71 44B85A C

Power the World Mobile Network,
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Summary



Radio IS 4480 is an outdoor FDD dual-band macro radio with up to 4x60 W output power per band, up to 4x100 W in total. It supports, per band, GSM in mixed mode, WCDMA, and LTE. Radio 4480 is part of the Ericsson Radio System portfolio with excellent radio performance and power efficiency for wide-area 3GPP radio products.

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Technical Specifications



RADIO GENERAL	
Single/Multi-Band Radio Segment	Capacity
RADIO CHARACTERISTICS	
Duplex Mode	FDD
Base Station Class	Wide Area
Cascading Support	Yes Cascading Support
NR Base Station Type	Type 1-C
Antenna HW Calibration	Not Supported
RADIO OTHER	
Radio Power Supply	-48V DC
HWAC Support	Output power 20W to 40W
	Output power 40W to 60W
	Output power 60W to 80W
	Output power 80W to 100W
	Output power 100W to 120W
	Output power 120W to 140W
	Output power 140W to 160W
	Output power 160W to 180W
	Output power 180W to 200W
	Output power 200W to 220W
	Output power 220W to 240W
	Output power 240W to 260W
	Output power 260W to 280W
	Output power 280W to 300W
	Output power 300W to 320W
	Output Power 20 W Step
	Output Power 20 W Step above 320 W
	Channel Bandwidth 5 MHz
	Channel Bandwidth 10 MHz
	Channel Bandwidth 15 MHz
	Channel Bandwidth 20 MHz
	LTE FDD Channel Bandwidth
	NR FDD Channel Bandwidth 5 MHz
RF GROUP	
TX/RX Configurations	1TX/1RX
	2TX/2RX
	2TX/2RX+2TX/2RX
	4TX/4RX

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Technical Specifications



MB TX RF	
Max Output Power per RF	Max Output Power per RF A,B,C,D B71,B85A 100 B71 60
Port (RF connector Operating band combinations Max. RF power per port (W) Operating band Max. RF power per band (W))	A,B,C,D B71, B85A 100 B85A 40
Max DL Base Station RF bandwidth per port for multi-band operation (Operating band RA Type RAT Operation Mode Carrier Power (dBm) Modulation Type Contiguous and/or Non-Contiguous operation Channel Bandwidth (MHz) RF BW (MHZ))	B71 E-UTRA-FDD Both SRO and MRO A,B,C,D Both contiguous and non-contiguous operation 5,10,15,20 35 B85A E-UTRA-FDD Both SRO and MRO A,B,C,D Both contiguous and non-contiguous operation 5,10 17 B71 NB-IoT SA Both SRO and MRO A, B,C,D Both contiguous and non-contiguous operation 0,2 20 B85A NB-IoT SA Both SRO and MRO A,B,C,D Both contiguous and non-contiguous operation 0,2 17 B71 NR-FDD Both SRO and MRO A,B, C,D Both contiguous and non-contiguous operation 5,10,15,20 35 B71 ESS FDD Both SRO and MRO A,B, C,D Both contiguous and non-contiguous operation 10,15,20 35
POWER CONSUMPTION	
Power Consumption, Average	576 W
ENVIRONMENTAL SPECIFICATIONS	
Temperature, Normal Operation	-40 °F (Min Temperature) 131 °F (Max Temperature)
Relative Humidity, Normal Operation	5 % (Min Relative Humidity) 100 % (Max Relative Humidity)
MECHANICAL SPECIFICATIONS	
Cooling Method	Natural Convection
Maintenance Button	Yes
Mounting Direction	Primary Vertical, Secondary Horizontal
Product Environment	Outdoor
Mounting Options	Rail, Wall, Pole/Mast
Fan Option	Yes
Board Restore Button	No
Product Dimensions	21.93 in (Product Height) 15.67 in (Product Width) 7.48 in (Product Depth)
Volume	1136 US fl oz
Weight	77.2 lb
Product Weight Tolerances in Percent	-5 % (Lower Weight Tolerance in Percent) 5 % (Upper Weight Tolerance in Percent)

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Technical Specifications



CERTIFICATIONS	
Radio Standards, International	3GPP TS37.141, 3GPP TS38.141-1, 3GPP TS38.141-2
Radio Standards, North America	FCC CFR 47 Part 22 FCC CFR 47 Part 24 FCC CFR 47 Part 27 FCC CFR 47 Part 15 IC RSS-133 IC RSS-139 IC RSS-Gen RSP-100 ISED
Encapsulation Class	IP65
Safety Standards	IEC/EN 60 950-22 UL 60 950-22 IEC/EN 62 368-1 UL 62 368-1 IEC/EN 60 529-1 EN 50 385 CAN/CSA-C22.2 NO. 60 950-22 CAN/CSA-C22.2 NO. 62 368-1
Regulatory Approval	CE, CB, UL, CSA, ETL
EMC Immunity	3GPP TS36.113, TS37.113, CISPR 22, 3GPP TS 38.113, 3GPP TS37.114
EMC Emission	FCC Part 15, ICES-003
EMC Emission Class	Class B
EU Directives	RoHS2 2011/65/EU, RED 2014/53/EU
Power Standards	EN 300132-2
EMF Standards	FCC CFR 47 Part 1.1310, EN 50385, FCC OET Bulletin 65, EN/IEC 62232
CPRI	
Supported Boot Line Rates	2.5 Gbit/s, 9.8 Gbit/s
Supported Operating Line Rates	2.5 Gbit/s, 4.9 Gbit/s, 9.8 Gbit/s, 10.1 Gbit/s
PORT DC POWER -48V	
Port Type	Power Connector
PORT GROUNDING	
Port Type	2 x M6 bolt
PORT RF (BIAS-T SUPPORT)	
Number of Ports	4
Port Type	4.3-10 connector
PORT EXTERNAL ALARM	
Number of Ports	1
Port Type	DIN connector, 14-pin

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PORT EXTERNAL ANTENNA LINE DEVICE	
Number of Ports	1
Port Type	DIN connector, 8-pin
PORT DATA	
Number of Ports	2
Port Type	LC
Connector Application	CPRI-2.4G CPRI-4.9G CPRI-9.8G CPRI-10.1G
RADIO INFORMATION	
Supported Operation Modes (DL, multi-band)	Band B71: All supported RAT types (Both SRO and MRO); Band B85A: All supported RAT types (Both SRO and MRO)
Operating Band Support	Band 71 (600 MHz) Band 85A (700 MHz)
GENERAL INFO	
Spare Part Availability	Recommended



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Connectivity Redefined.

