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# AIR 6419 B40

SP-KRD901228/11

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AIR 6419 is a lightweight Antenna Integrated Radio unit for 5G mid-band TDD. It has 64 transmitters and 64 receivers, 192 antenna elements, 200MHz total carrier bandwidth and upto 320 W output power. AIR 6419 is an Advanced Antenna System (AAS) for Massive MIMO, which is a powerful single antenna option enabling service providers to provide a full-fledged 5G experience and improved capacity, in a small footprint. AIR 6419 is part of the Ericsson Radio System portfolio.

STATUS ⓘ

General Availability

DS4, PRG (R1A)

PRODUCT  
SEGMENT

Capacity

CHOOSE QUANTITY

1

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SPECIFICATIONS ▼

Radio General

Massive MIMO Segment	Capacity
3GPP RAT Types	E-UTRA NR
Product Segment	Capacity
Supported Operating Bands (Operating Band   Tab List)	B40   All TAB connectors

Radio Characteristics

NR Base Station Type	Type 1-H
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Base Station Class	Wide Area
Duplex Mode	TDD
Contiguous and Non-Contiguous Parameters Identical	Yes
Supported E-UTRA Channel Bandwidths (Operating band   Tab list   Channel Bandwidth (MHz))	B40   All TAB connectors   10 B40   All TAB connectors   15 B40   All TAB connectors   20
Supported NR Channel Bandwidths (Operating band   Tab list   Channel Bandwidth (MHz))	B40   All TAB connectors   100 B40   All TAB connectors   20,30,40,50,60,80
<b>Radio Other</b>	
Radio Regulatory Requirements	ACMA CE TEC (India)
HWAC Support	Output Power 20 W Step LTE AAS TDD Channel Bandwidth 10 MHz  NR AAS TDD Channel Bandwidth 10 MHz
TX/RX Configurations	1TX/1RX
Number of Antenna Elements	192
Number of TAB Connectors (TX or RX Designation   No. of TAB Connectors)	TX   64 RX   64

**RF Group**

Max AAS UL Operational BW	100 MHz
Max AAS DL Operational BW	100 MHz
DL Frequency Ranges	2300 - 2400 MHz
UL Frequency Ranges	2300 - 2400 MHz
Supported DL SU MIMO Layers	8 Layers
Supported DL MU MIMO Layers	16 Layers
Supported UL SU MIMO Layers	8 Layers
Supported UL MU MIMO Layers	8 Layers

**AAS TX RF**

Maximum Unit RF Output Power	320 W
Max DL Base Station RF Bandwidth (Operating band   Tab list   IBW (MHz))	B40   All TAB connectors   100

**AAS RX RF**

Max UL Base Station RF Bandwidth (Operating band   Tab list   IBW (MHz))	B40   All TAB connectors   100
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**AAS OTA DL**

Maximum Unit EIRP	78.5 dBm
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### Environmental Specifications

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Temperature, Normal Operation	-40 °C (Min Temperature) 55 °C (Max Temperature)
Relative Humidity, Normal Operation	2 % (Min Relative Humidity) 100 % (Max Relative Humidity)

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### Mechanical Specifications

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Cooling Method	Natural Convection
Maintenance Button	No
Mounting Direction	Primary Vertical
Product Environment	Outdoor
Mounting Options	Wall Pole/Mast
Fan Option	No
Board Restore Button	No
Product Dimensions	851 mm (Product Height) 506 mm (Product Width) 160 mm (Product Depth)
Volume	69 l
Weight	29.5 kg
Product Weight Tolerances in Percent	-5 % (Lower Weight Tolerance in Percent) 5 % (Upper Weight Tolerance in Percent)

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## Certifications

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Radio Standards, Europe	ETSI EN 301 908-1
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Radio Standards, International	3GPP TS37.145-1 3GPP TS37.145-2
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Encapsulation Class	IP65
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Safety Standards	IEC/EN 60 950-22 IEC/EN 62 368-1 IEC/EN 60 529-1 EN 50 385
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Regulatory Approval	CE CB TEC
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EMC Immunity	ETSI EN 301 489-1 3GPP TS37.114
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EMC Emission	3GPP TS37.114 ETSI EN 301 489-1 ETSI EN 301 489-50
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EMC Emission Class	Class B
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EU Directives	RoHS2 2011/65/EU RED 2014/53/EU WEEE 2012/19/EU
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EMF Standards	EN 50385
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## Electrical Specifications

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-48 V DC Power Supply Type	DC-I and DC-C
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**CPRI**

Supported Boot Line Rates	10.3 Gbit/s
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Supported Operating Line Rates	10 Gbit/s 25 Gbit/s
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**Port DC Power -48V**

Port Type	Power
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**Port Grounding**

Number of Ports	1
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Port Type	2 x M6 bolt
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Connector Application	Grounding
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**Port External Alarm/EC Light**

Number of Ports	1
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Port Type	DIN, 14-pin
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Connector Application	EC Light External Alarm (EA)
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**Port AUX**

Number of Ports	1
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Connector Application	Output monitor
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**Port Data**

Port Type	SFP28
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Connector Application	eCPRI-10.3G eCPRI-25.78G
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**Port TX Monitor**

Number of Ports	1
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Port Type	SMA
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Connector Application	Output monitor
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**Radio Information**

Maximum Supported UL Carriers per Band or Bands and RAT Types	3
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Maximum Supported DL Carriers per Band or Bands and RAT Types	3
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**Specifications From Unit Database**

Latest Successful Synchronization	2023-11-06 - 22.00 UTC
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Latest Approved	2023-07-19 - 03.57 UTC
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Source	<a href="#">Link to source in Unit Database</a>
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**General Info**

Spare Part Availability	Recommended
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