



Until the product has reached Ready for Tendering (PRT), the content, cost, price, and time schedule must be regarded as preliminary.

AIR 3284 B1 B3 B7

KRD901328/11

AIR 3284 is a triple band Antenna Integrated Radio for FDD with 32 transmitters and 32 receivers, with 2x higher downlink and 4x higher uplink capacity vs. 4T/4R.

The lightweight multi-band integration of AIR 3284 enables a fast roll out with reduced site radio footprint, while enabling a capacity boost in existing spectrum. Investments are future proof, as it supports both 4G and 5G.

It is Open RAN prepared with eCPRI packed-based open fronthaul. The eCPRI interface also reduces the need for baseband capacity compared to previous generations of FDD Massive MIMO products.

Technical Specifications for AIR 3284 B1 B3 B7

GENERAL INFO		
GENERAL RADIO INFO	Operating Band (DL Freq.)	B1 (2110-2170 MHz) B3 (1805-1880 MHz) B7 (2627-2690MHz)
	RADIO OTHER	Radio Regulatory Requirements 3GPP ACMA CE Ofcom
	TX/RX Configurations	32TX/32RX
	Number of Antenna Elements	192
	Number of TAB Connectors	See Table 1 under RADIO OTHER at the end of the document
RF GROUP	Max AAS UL Operational BW	205 MHz
	Max AAS DL Operational BW	205 MHz
	DL Frequency Ranges	1805 - 1880 MHz 2110 - 2170 MHz 2620 - 2690 MHz
	UL Frequency Ranges	1710 - 1785 MHz 1920 - 1980 MHz 2500 - 2570 MHz
	Supported DL SU MIMO Layers	4 Layers
	Supported DL MU MIMO Layers	8 Layers
	Supported UL SU MIMO Layers	1 Layer
	Supported UL MU MIMO Layers	4 Layers
AAS TX RF	Maximum Unit RF Output Power	520 W
	Max DL Base Station RF Bandwidth	See Table 1 under AAS TX RF at the end of the document
	Max number of Supported DL Carriers per Band	See Table 2 under AAS TX RF at the end of the document
AAS RX RF	Max UL Base Station RF Bandwidth (Operating band Tab list IBW (MHz))	See Table 1 under AAS RX RF at the end of the document
	Max number of Supported UL Carriers per Band	See Table 2 under AAS RX RF at the end of the document
AAS OTA DL	Maximum Unit EIRP	81.2 dBm
ENVIRONMENTAL SPECIFICATIONS	Minimum Ambient Temperature at Normal Operation	-40 °C
	Maximum Ambient Temperature at Normal Operation	55 °C

MECHANICAL SPECIFICATIONS	Depth	339 mm
	Height	1 m
	Width	505 mm
	Net Weight Lower Relative Tolerance Limit	5 %
	Net Weight Upper Relative Tolerance Limit	5 %
	Mounting Options	Wall Pole/Mast
	Height Excluding Protruding Parts	1 m
	Width Excluding Protruding Parts	505 mm
	Depth Excluding Protruding Parts	278 mm
	Volume	140 l
Weight	46 kg	
ELECTRICAL SPECIFICATIONS	-48 V DC Power Supply Type	DC-I and DC-C
CPRI	Supported Operating Line Rates	10.3 Gbit/s 25.78 Gbit/s
PORT DATA	Number of Ports	2
	Connector Application	eCPRI-10.3G eCPRI-25.78G
RADIO GENERAL	Massive MIMO Segment	Capacity
	3GPP RAT Types	E-UTRA NB-IoT NR
	Product Segment	Capacity
RADIO CHARACTERISTICS	Contiguous and Non-Contiguous Parameters Identical	Yes
	Acoustic Noise - Sound Power	See Table 1 under RADIO CHARACTERISTICS at the end of the document
	Supported NR Channel Bandwidths	See Table 2 under RADIO CHARACTERISTICS at the end of the document
CERTIFICATIONS	Encapsulation Class	IP65
PORT EXTERNAL ALARM/EC LIGHT	Number of Ports	1
RADIO INFORMATION	Maximum Supported UL Carriers per Band or Bands and RAT Types	B1: NR/LTE up to 4 carriers B3: NR/LTE up to 4 carriers B7: NR/LTE up to 4 carriers B1+B3: NR/LTE up to 6 carriers B1+B3+B7: NR/LTE up to 9 carriers
	Maximum Supported DL Carriers per Band or Bands and RAT Types	B1: NR/LTE up to 4 carriers B3: NR/LTE up to 4 carriers B7: NR/LTE up to 4 carriers B1+B3: NR/LTE up to 6 carriers B1+B3+B7: NR/LTE up to 9 carriers

Table Values

RADIO OTHER

Table 1: Number of TAB Connectors

TX or RX designation	Number of TAB Connectors.
TX	32
RX	32

AAS TX RF

Table 1: Max DL Base Station RF Bandwidth

Operating Band.	Tab List	IBW (MHz)
B1	All Tabs	60
B3	All Tabs	75
B7	All Tabs	70

Table 2: Max number of Supported DL Carriers per Band

Operating Band.	RAT Type.	number of carriers
B1	E-UTRA FDD,NR FDD	4
B3	E-UTRA FDD,NR FDD	4
B7	E-UTRA FDD,NR FDD	4

AAS RX RF

**Table 1: Max UL Base Station RF Bandwidth
(Operating band | Tab list | IBW (MHz))**

Operating Band.	Tab List	IBW (MHz)
B1	All Tabs	60
B3	All Tabs	75
B7	All Tabs	70

Table 2: Max number of Supported UL Carriers per Band

Operating Band.	RAT Type.	number of carriers
B1	E-UTRA FDD,NR FDD	4
B3	E-UTRA FDD,NR FDD	4
B7	E-UTRA FDD,NR FDD	4

RADIO CHARACTERISTICS

Table 1: Acoustic Noise - Sound Power

Operating Band.	Tab List	Channel Bandwidth (MHz)
B1,B3,B7	All Tabs	5,10,15,20

Table 2: Supported NR Channel Bandwidths

Operating Band.	Tab List	Channel Bandwidth (MHz)
B1	All Tabs	5,10,15,20,25,30,40,50
B3,B7	All Tabs	5,10,15,20,25,30,35,40,50