

MX06FRO860-03

NWAV™ X-Pol Hex-Port Antenna

X-Pol Hex-Port 8 ft 60° Fast Roll Off antenna with independent tilt on 700 & 850 MHz:

2 ports 698-798, 824-894 MHz and 4 ports 1695-2180 MHz

- Fast Roll Off (FRO™) azimuth beam pattern improves Intra- and Inter-cell SINR
- Compatible with dual band 700/850 MHz radios with independent low band EDT without external diplexers
- Fully integrated (iRETs) with independent RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM air interface technologies
- Integrated Smart Bias-Ts reduce leasing costs

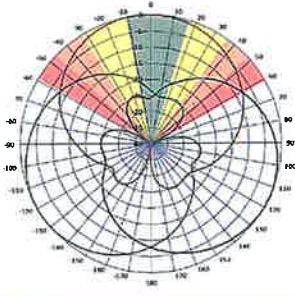


NWAV

Fast Roll-Off antennas increase data throughput without compromising coverage

The horizontal beam produced by Fast Roll-Off (FRO) technology increases the Signal to Interference & Noise Ratio (SINR) by eliminating overlap between sectors.

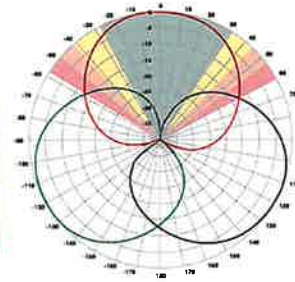
Non-FRO antenna



Large traditional antenna pattern overlap creates harmful interference.

JMA's FRO antenna pattern minimizes overlap, thereby minimizing interference.

JMA FRO antenna



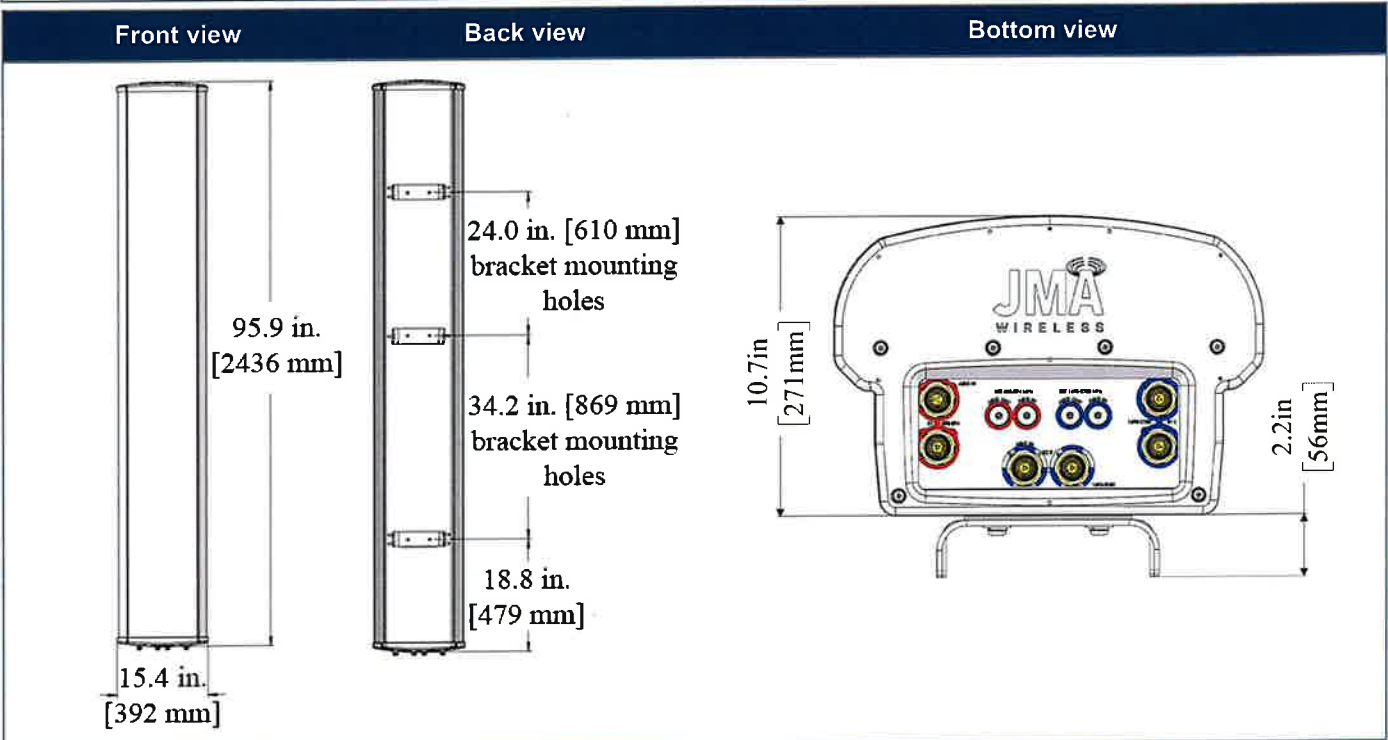
LTE throughput	SINR	Speed (bps/Hz)	Speed increase	CQI
Excellent	>18	>4.5	333+%	8-10
Good	15-18	3.3-4.5	277%	6-7
Fair	10-15	2-3.3	160%	4-6
Poor	<10	<2	0%	1-3

The LTE radio automatically selects the best throughput based on measured SINR.

Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6		
	698-798	824-894	1695-1880	1850-1990	1920-2180
Frequency bands, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	15.3	14.5	17.6	17.9	18.2
Horizontal beamwidth (HBW), degrees	60.0	53.5	55.0	55.0	55.5
Front-to-back ratio, co-polar power @180°± 30°, dB	>22.0	>21.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>18.0	>15.0	>18	>18	>15
Sector power ratio, percent	<4.5	<3.5	<3.7	<3.8	<3.6
Vertical beamwidth (VBW), degrees ¹	9.0	8.3	6.0	5.5	5.5
Electrical downtilt (EDT) range, degrees	2-12	2-12	0-9		
First upper side lobe (USLS) suppression, dB ¹	≤-15.0	≤-15.0	≤-16.0	≤-16.0	≤-16.0
Cross-polar isolation, port-to-port, dB ¹	25	25	25	25	25
Max VSWR / return loss, dB	1.5:1 / -14.0		1.5:1 / -14.0		
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153		-153		
Max input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

¹ Typical value over frequency and tilt

Mechanical specifications	
Dimensions height/width/depth, inches (mm)	95.9/ 15.4/ 10.7 (2436/ 392/ 273)
Shipping dimensions length/width/height, inches (mm)	106/ 20/ 15 (2692/ 508/ 381)
No. of RF input ports, connector type, and location	6 x 4.3-10 female, bottom
RF connector torque	96 lbf·in (10.85 N·m or 8 lbf·ft)
Net antenna weight, lb (kg)	65 (29.5)
Shipping weight, lb (kg)	95 (43.1)
Antenna mounting and downtilt kit included with antenna	91900318, 91900319 (middle bracket)
Net weight of the mounting and downtilt kit, lb (kg)	26 (11.82)
Range of mechanical up/down tilt	-2° to 12°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal and lateral wind loading @ 150 km/h, lbf (N)	141.4 (629.0), 105.8 (470.6)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	3.46
EPA frontal and lateral, ft ² , (m ²)	6.4 (0.59), 3.2 (0.30)

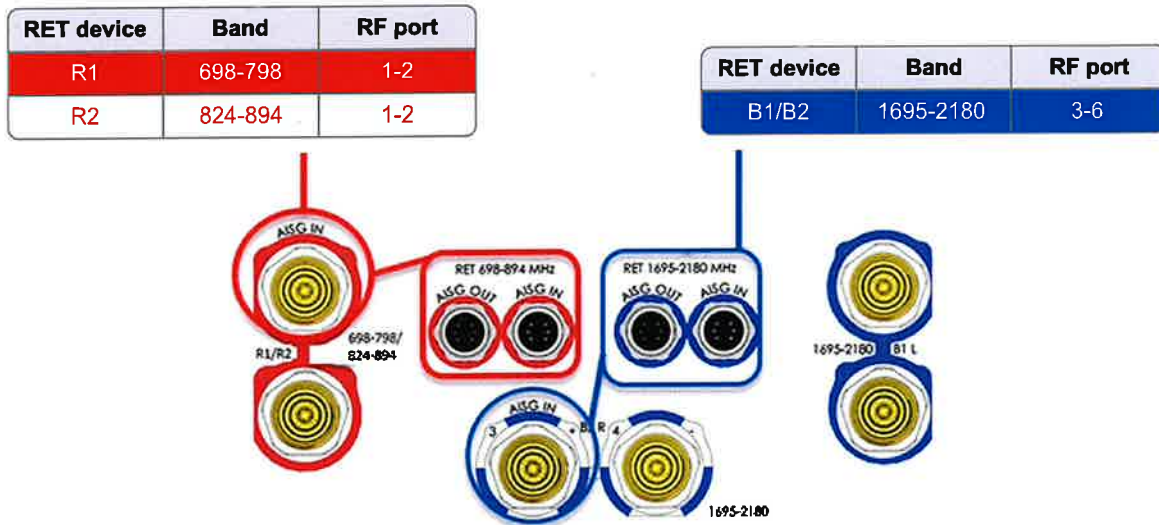


Ordering information	
Antenna model	Description
MX06FRO860-03	8F X-Pol HEX FRO 60° independent tilt 700/850 RET, 4.3-10 & SBT
Optional accessories	
<u>AISG cables</u>	M/F cables for AISG connections
<u>PCU-1000 RET controller</u>	Stand-alone controller for RET control and configurations

Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors
RET interface connector location	Bottom of the antenna
Total no. of internal RETs (low bands)	2
Total no. of internal RETs (high bands)	1
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤ 2.0
RET max power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0 / 3GPP

RET and RF connector topology

Each RET device can be controlled either via the designated external AISG connector or RF port as shown below:



Array topology

<p>3 sets of radiating arrays</p> <p>R1/R2: 698-894 MHz B1: 1695-2180 MHz B2: 1695-2180 MHz</p>	<table border="1"> <thead> <tr> <th>Band</th> <th>RF port</th> </tr> </thead> <tbody> <tr> <td>1695-2180</td> <td>3-4</td> </tr> <tr> <td>698-894</td> <td>1-2</td> </tr> <tr> <td>1695-2180</td> <td>5-6</td> </tr> </tbody> </table>	Band	RF port	1695-2180	3-4	698-894	1-2	1695-2180	5-6	
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MX06FRO840-02

NWAV™ X-Pol Hex-Port Antenna

X-Pol Hex-Port 8 ft 40° Fast Roll Off:

2 ports 698-894 MHz and 4 ports 1695-2180 MHz

- Fast Roll Off (FRO™) azimuth beam pattern improves Intra- and Inter-cell SINR
- Excellent passive intermodulation (PIM) performance reduces harmful interference.
- Fully integrated (iRETs) with independent RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM air interface technologies
- Integrated Smart Bias-Ts reduce leasing costs



Fast Roll-Off antennas increase data throughput without compromising coverage

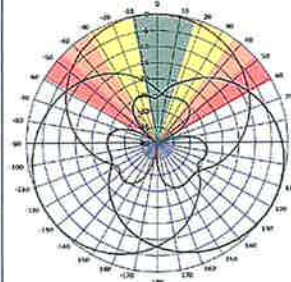
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Non-FRO antenna

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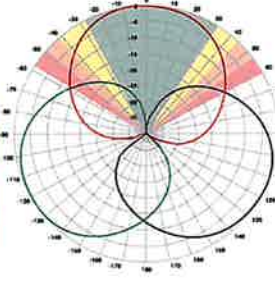
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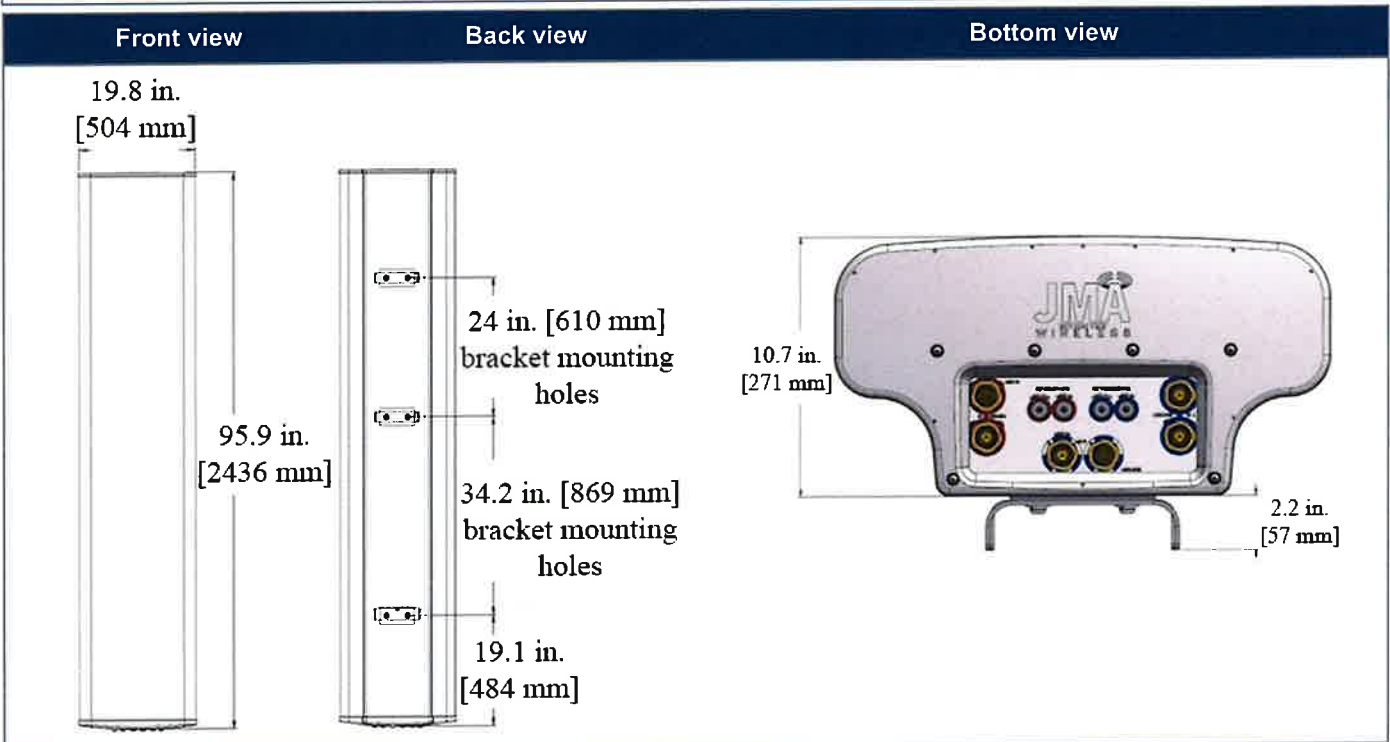


Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6		
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Frequency bands, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	17.6	18.0	19.9	20.4	20.8
Horizontal beamwidth (HBW), degrees	42	37	39	36	34
Front-to-back ratio, co-polar power @180°± 30°, dB	>22.0	>22.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>18.0	>15.0	>18	>18	>15
Sector power ratio, percent	<4.5	<3.5	<3.7	<3.8	<3.6
Vertical beamwidth (VBW), degrees ¹	9.0	8.3	6.0	5.7	5.3
Electrical downtilt (EDT) range, degrees	2-12	2-12	0-9		
First upper side lobe (USLS) suppression, dB ¹	≤-15.0	≤-15.0	≤-16.0	≤-16.0	≤-16.0
Cross-polar isolation, port-to-port, dB ¹	25	25	25	25	25
Max VSWR / return loss, dB	1.5:1 / -14.0		1.5:1 / -14.0		
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153		-153		
Max input power per any port, watts	300		250		
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RF connector torque	96 lbf-in (10.85 N·m or 8 lbf-ft)
Net antenna weight, lb (kg)	98 (44.55)
Shipping weight, lb (kg)	147 (66.82)
Antenna mounting and downtilt kit included with antenna	91900318, 91900319 (middle bracket)
Net weight of the mounting and downtilt kit, lb (kg)	26 (11.82)
Range of mechanical up/down tilt	-2° to 12°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal and lateral wind loading @ 150 km/h, lbf (N)	213.4 (949.3), 105.4 (468.8)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	6.32
EPA frontal and lateral, ft ² , (m ²)	9.6 (0.89), 3.6 (0.33)



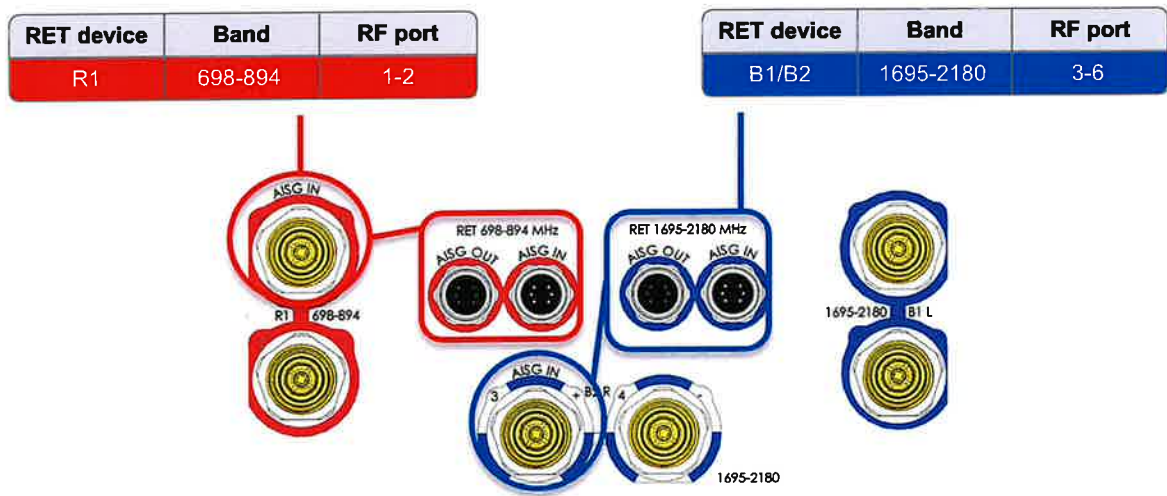
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Optional accessories	
<u>AISG cables</u>	M/F cables for AISG connections
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RET interface connector location	Bottom of the antenna
Total no. of internal RETs (low bands)	1
Total no. of internal RETs (high bands)	1
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤ 2.0
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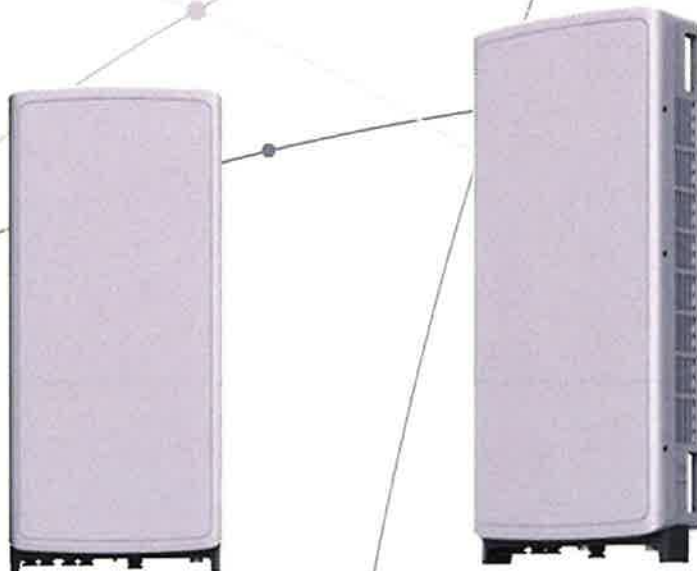
SAMSUNG

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



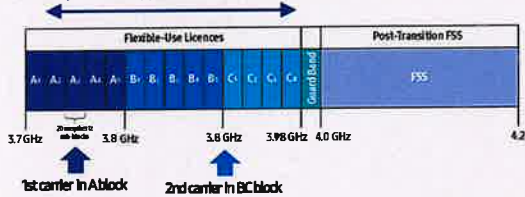
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

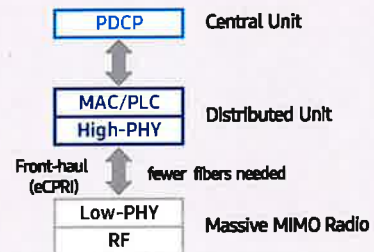
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.



Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. Despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs



SAMSUNG



About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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SAMSUNG

AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4439d-25A



Homepage
samsungnetworks.com

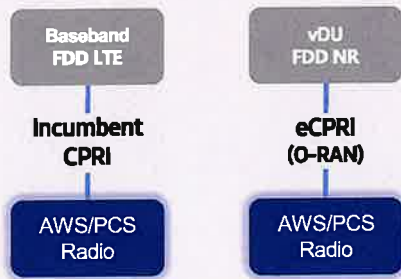


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

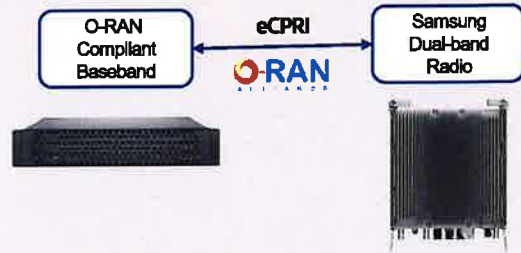
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help in implementing cost-effective networks, which are capable of sending more data without compromising additional investments.

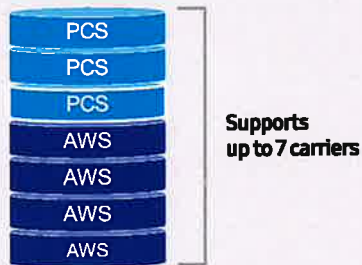
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

SAMSUNG

700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4440d-13A



Homepage
samsungnetworks.com

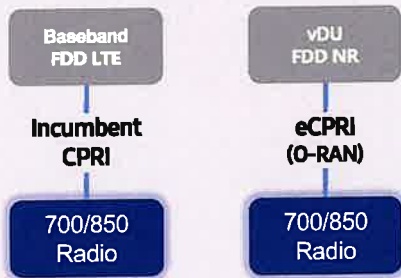


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

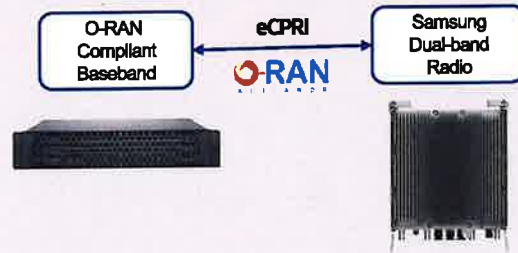
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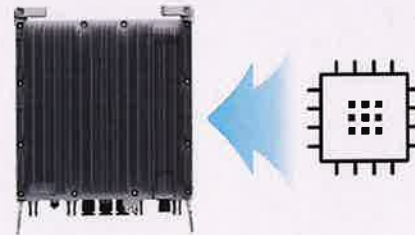
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

HYBRID CABLE



HUBER+SUHNER's hybrid cable combine optical fiber and DC power, are highly flexible and easy-to-route. Two rip cords between the shielding and the jacket allows a quick stripping of the jacket. The shielding, a copper foil under the jacket and the drain wire maintain contact throughout the cable run and allow potential equalisation and a safe installation with regard to lightning strikes.

HYBRID CABLE SPECIFICATIONS

		LSFH(TM) hybrid cable, global market	UL listed hybrid cable, US market
Jacket material		thermoplastic, low smoke, halogen free (LSFH(TM))	PVC
Standard		IEC 60502-1:2004-04	UL 1277, TC-OF-ER
Temperature range	in service installation	-40 to +75 °C -10 to +50 °C	-40 to +75 °C -10 to +50 °C
Operating voltage		48 Vdc	48 Vdc
Rated voltage		10 × cable Ø 8 × cable Ø	12 × cable Ø 10 × cable Ø
Conductors		6 mm ² , 10 mm ² 16 mm ²	AWG 10, 8, 6
Drain wire		6 mm ² , 10 mm ² class 2	AWG 6 class B
Cable shielding		copper foil 100 % coverage (contacted with drain wire)	copper foil 100 % coverage (contacted with drain wire)



Fiber optic	5 mm loose-tube cable with up to 36 single mode fibers	5 mm loose-tube cable with up to 36 single mode fibers
Halogen free	yes	no
Flame retardant	IEC 60332-1-2:2004	UL 1685 (UL 1581) vertical tray flame test (70 000 BTU/hr)
UV resistant	IEC 60068-2-5	UL1581

DO YOU HAVE A QUESTION?



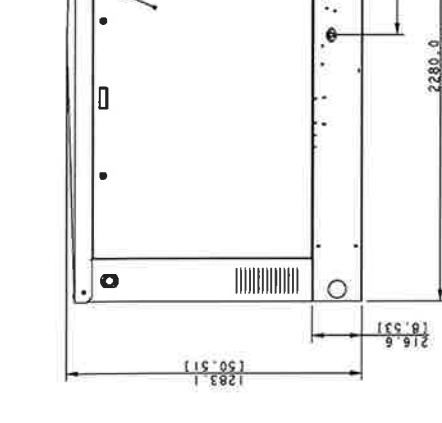
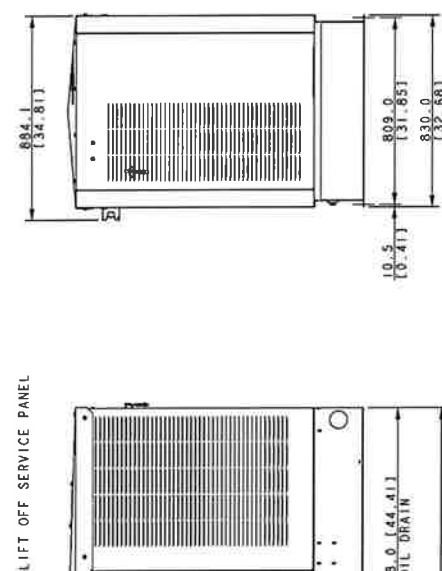
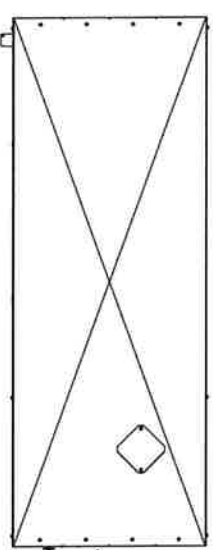
CONTACT US



8 7 6 5 4 3 2 1

NOTES:

- BOTH SIDES OF THE GENERATOR ARE SERVICE ACCESSIBLE
- W/EASY ACCESS SERVICE PANELS.
- 10 AMP BATTERY CHARGER.
- 10 AMP BATTERY CHARGER.
- GENERATOR MUST BE GROUND.
- SOUND ATTENUATED ENCLOSURE STANDARD WITH GENERATOR.
- MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST.
- MUST ALLOW FREE FLOW OF INTAKE AIR.
- IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.



NOTE: DIMENSIONS IN [] ARE ENGLISH STANDARD EQUIVALENTS

DO NOT SCALE. REFERENCE THE MODEL FOR ALL SPECIFIED DIMENSIONS

REV	DATE	BY	DESCRIPTION
A	11-29-18	JMP	REVISED DRAWING WITH NEW SAID DESIGN.
B	2-12-19	JMP	ADDED SHEET 3. (CT186443)
C	5-30-20	JMP	SEE SHEET 7 FOR CHANGE. (CT1981863)

MODEL	ALTERNATOR	GENSET MAXIMUM WEIGHT (MET) KG [LB]	WEIGHT W/OPTIONAL BASE STAND KG [LB]
25/30CCL	4D/E	726 [1600]	842 [2075]
25/30CCL	4P/Q	739 [1630]	955 [2105]

25/30CCL

ADV-9095



COHLETTA MANUFACTURING COMPANY
1000 W. 10TH AVENUE
DENVER, COLORADO 80202
TEL: 303.733.1111 FAX: 303.733.1112
WWW.COHLETTA.COM

8 7 6 5 4 3 2 1

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REV DATE

BY

10-22-18

11-29-18

2-12-19

5-30-19

10-22-18

ON COMBINE W/PT. SEE PART NO. FOR REVISION LEVEL

10-22-18 REV. DRAWING ICT131287

11-29-18 REV. DRAWING ICT131287

2-12-19 SEE SHEET I. & 2 FOR CHANGE. ICT131287

5-30-19 I.P. AREA CHANGE LOCATION OF RECOMMENDED STUDS

10-22-18 I.P. AREA 209.0 WAS 381.8 244.0 WAS 512.8, 412.9 WAS 199.0. ICT131287

DO NOT SCALE. REFERENCE THE MODEL FOR ALL UNSPECIFIED DIMENSIONS

ICT131287

10-22-18

11-29-18

2-12-19

5-30-19

10-22-18

11-29-18

2-12-19

5-30-19

10-22-18

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10-22-18

11-29-18

2-12-19

5-30-19

10-22-18

11-29-18

2-12-19

NOTES:

1. SKIDS DESIGNED FOR ROOF TOP INSTALLATION WITH CLOSED BOTTOMS HAVE NO PRECUT PROVISIONS FOR LOAD LEADS.

CONDUIT STUB-UP FOR GENERATOR LOAD LEADS (BOTTOM ENTRY)

ENGINE FLUID CONTAINMENT BASIN FLOAT SWITCH

240.0 (9.45)

473.6 (18.65)

30.0 (1.18)

200.0 (7.87)

18.0 (0.71)

GENERATOR CONTROLLER

AIR CLEANER WITH RESTRICTOR INDICATOR

E-STOP SWITCH

LOAD BREAKER

OIL FILTER

ENGINE OIL DIP STICK

BATTERY BOX

ENGINE FLUID CONTAINMENT BASIN FLOAT SWITCH

CONTAINMENT BASIN

ENGINE OIL DRAIN

10A BATTERY CHARGER

RADIATOR DRAIN LOCATED INSIDE ENCLOSURE

REMOVE ENCLOSURE PANEL FOR RADIATOR DRAIN ACCESS

RADIATOR DRAIN LOCATED INSIDE ENCLOSURE

GAS SHUT-OFF VALVES DUAL SOLENOID

1" NPT FUEL INLET

25/30CCL

ADV-9095

2

3

4

5

6

7

8

D

C

B

A

NOTE: GENERATOR HAS ACCESSIBILITY TO ALL ROADS. UNREACHABLE COMPONENTS INCLUDING:

1. AIR FILTER
2. BATTERY CHARGER
3. BATTERY
4. OIL FILTER
5. OIL AND COOLANT DRAINS
6. GAS SOLENOID VALVES

ADV-9095

25/30CCL

ADV-9095

2

3

4

5

6

7

8

D

C

B

A

25/30CCL

ADV-9095

2

3

4

5

6

7

8

D

C

B

A

25/30CCL

ADV-9095

2

3

4

5

6

7

8

D

C

B

A

25/30CCL

ADV-9095

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C

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A

25/30CCL

ADV-9095

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25/30CCL

ADV-9095

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25/30CCL

ADV-9095

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25/30CCL

ADV-9095

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25/30CCL

ADV-9095

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25/30CCL

ADV-9095

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25/30CCL

ADV-9095

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25/30CCL

ADV-9095

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25/30CCL

ADV-9095

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25/30CCL

ADV-9095

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25/30CCL

ADV-9095

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D

C

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A

25/30CCL

ADV-9095

2

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4

