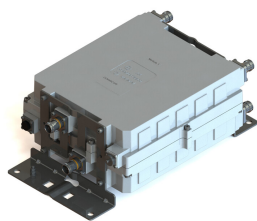


# E16R30P05



Dual Band Tower Mounted Amplifier, 800/900 MHz, 12 dB, 2 BTS & 4 ANT ports, AISG with 1 RET connector, with 4.3-10 connectors (2 device with 2 sub-units)

- Designed to boost UP-Link Coverage and KPIs
- TMA is operating in AISG & CWA mode, Alarm Current consumption CWA mode 190 mA
- 2 input ports and 4 output ports
- 2 devices with 2 sub-units
- Single AISG with 1 RET connector
- New 4.3-10 connectors for improved PIM performance and size reduction

## Product Classification

**Product Type** 1-BTS:2-ANT (Diplex) | Tower mounted amplifier

## General Specifications

**Color** Gray

**Modularity** 2-Twin

**Mounting Pipe Hardware** Band clamps (2)

**RF Connector Interface** 4.3-10 Female

## Dimensions

**Height** 250 mm | 9.843 in

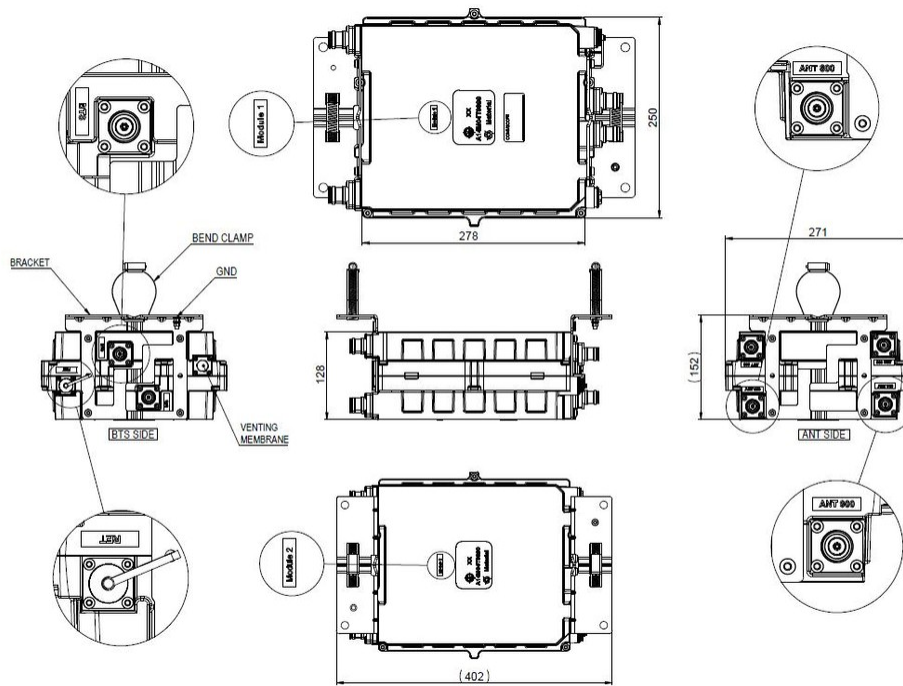
**Width** 278 mm | 10.945 in

**Depth** 128 mm | 5.039 in

**Mounting Pipe Diameter Range** 42.6–122 mm

## Outline Drawing

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## Electrical Specifications

**License Band, LNA** CEL 900 | EDD 800

## Electrical Specifications, dc Power/Alarm

<b>dc Switching/Redundancy</b>	Yes
<b>Lightning Surge Current</b>	10 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform
<b>Voltage</b>	7–30 Vdc
<b>Alarm Current, CWA Mode</b>	190 mA $\pm$ 10 mA

## Electrical Specifications, AISG

<b>AISG Connector</b>	8-pin DIN Female
<b>AISG Connector Standard</b>	IEC 60130-9
<b>Protocol</b>	AISG 2.0
<b>Voltage, AISG Mode</b>	10–30 Vdc

## Electrical Specifications

Sub-module	1   2	1   2
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# E16R30P05

Branch	1	2
Port Designation	ANT 800	ANT 900
License Band	EDD 800, LNA	CEL 900, LNA
Return Loss, typical, dB	20	20

## Electrical Specifications Rx (Uplink)

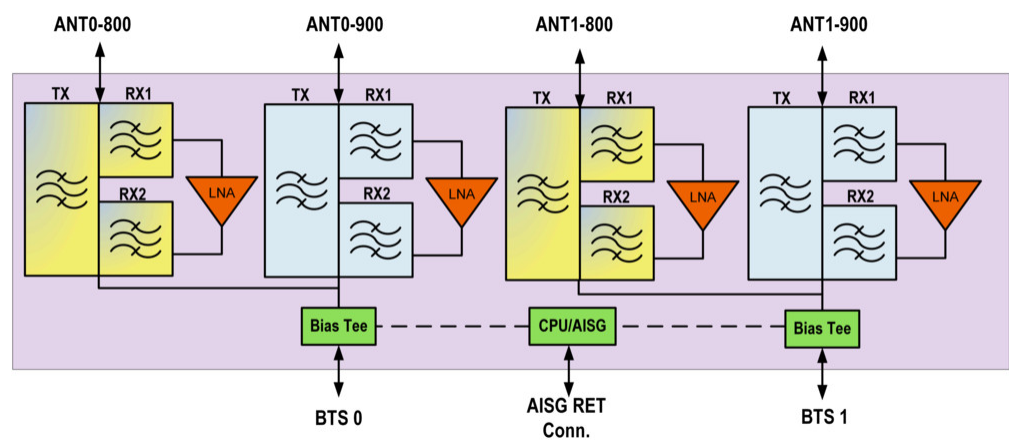
Frequency Range, MHz	832–862	880–915
Bandwidth, MHz	30	35
Gain, nominal, dB	12	12
Noise Figure, typical, dB	1.25	1.25
Group Delay Variation, maximum, ns	165	165
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	240	240
Return Loss, minimum, dB	16	18
Insertion Loss - Bypass Mode, typical, dB	2.7	2.7

## Electrical Specifications Tx (Downlink)

Frequency Range, MHz	791–821	925–960
Bandwidth, MHz	30	35
Insertion Loss, typical, dB	0.75	0.75
Group Delay Variation, maximum, ns	60	65
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	110	110
Return Loss, minimum, dB	18	18
Return Loss, typical, dB	20	20
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, typical, dBc	-156	-156
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

## Block Diagram

# E16R30P05



## Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity	Up to 100%
Corrosion Test Method	IEC 60068-2-11, 30 days
Ingress Protection Test Method	IEC 60529:2001, IP67

## Packaging and Weights

Included	Mounting hardware
Volume	8.9 L
Weight, net	12.2 kg   26.896 lb

## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

## \* Footnotes

License Band, LNA	License Bands that have RxUplink amplification
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