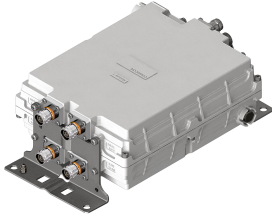


# E16S02P68

---



Dual Band Tower Mounted Amplifier, 1800//2600 MHz, 12 dB, 2 BTS & 4 ANT ports, with 4.3-10 connectors, AISG with 1 RET connector (1 device with 2 sub-units each)

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

## Product Classification

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

## General Specifications

**Color** Gray

**Modularity** 2-Twin

**Mounting** Pole | Wall

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

**RF Connector Interface** 4.3-10 Female

## Dimensions

**Height** 280 mm | 11.024 in

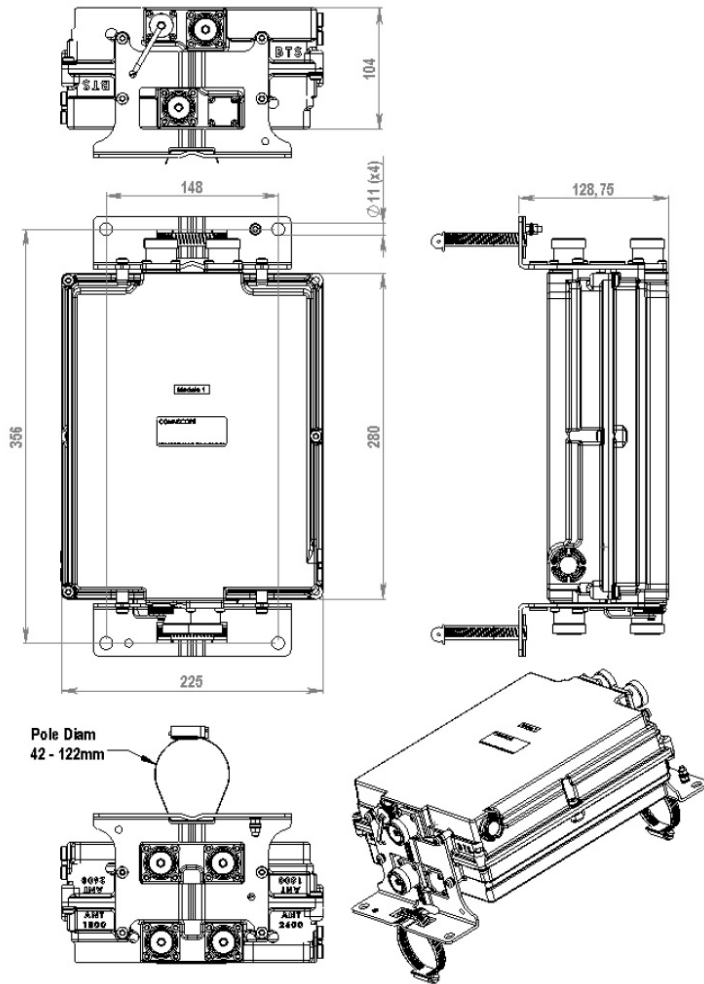
**Width** 225 mm | 8.858 in

**Depth** 104 mm | 4.094 in

**Mounting Pipe Diameter Range** 50–120 mm

# E16S02P68

## Outline Drawing



## Electrical Specifications

**License Band, LNA**

DCS 1800 | IMT 2600

## Electrical Specifications, dc Power/Alarm

**dc Switching/Redundancy**

Yes

**Lightning Surge Current**

10 kA

**Lightning Surge Current Waveform**

8/20 waveform

**Voltage**

7-30 Vdc

**Alarm Current, CWA Mode**

190 mA  $\pm$ 10 mA

## Electrical Specifications, AISG

# E16S02P68

<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

<b>Sub-module</b>	<b>1   2</b>	<b>1   2</b>
<b>Branch</b>	1	2
<b>Port Designation</b>	ANT 1800	ANT 2600
<b>License Band</b>	DCS 1800, LNA	IMT 2600, LNA
<b>Return Loss - Bypass Mode, typical, dB</b>	14	14

## Electrical Specifications Rx (Uplink)

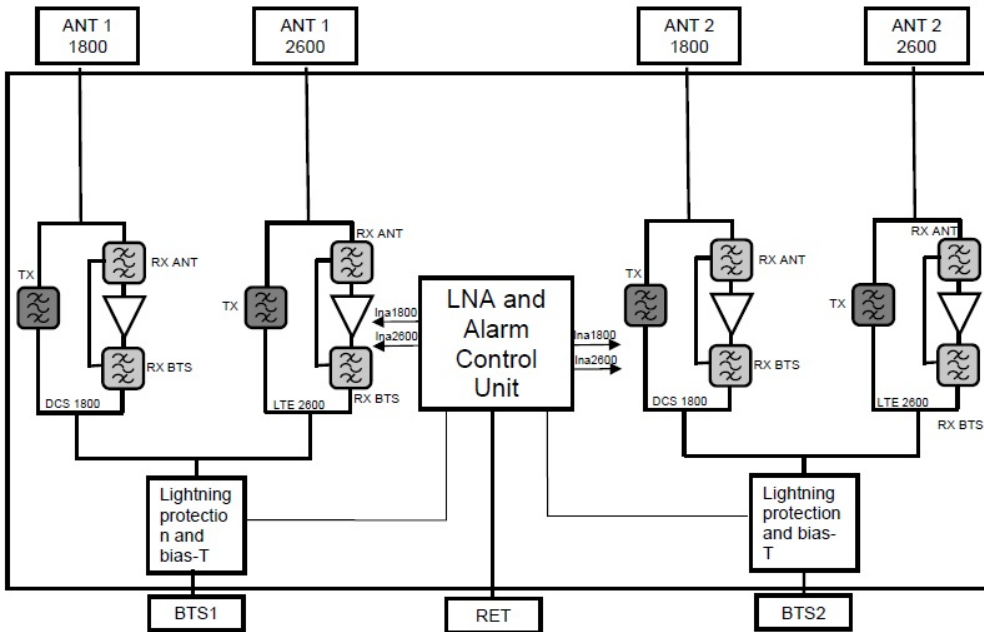
<b>Frequency Range, MHz</b>	<b>1710–1785</b>	<b>2500–2570</b>
<b>Bandwidth, MHz</b>	75	70
<b>Gain, nominal, dB</b>	12	12
<b>Noise Figure, typical, dB</b>	1.5	1.6
<b>Return Loss, minimum, dB</b>	18	18
<b>Insertion Loss - Bypass Mode, typical, dB</b>	3	3.3

## Electrical Specifications Tx (Downlink)

<b>Frequency Range, MHz</b>	<b>1805–1880</b>	<b>2620–2690</b>
<b>Bandwidth, MHz</b>	75	70
<b>Insertion Loss, typical, dB</b>	0.5	0.5
<b>Return Loss, minimum, dB</b>	18	18
<b>Input Power, RMS, maximum, W</b>	200	200
<b>Input Power, PEP, maximum, W</b>	2000	2000
<b>3rd Order PIM, typical, dBc</b>	-160	-160
<b>3rd Order PIM Test Method</b>	Two +43 dBm carriers	Two +43 dBm carriers

## Block Diagram

# E16S02P68



## Mechanical Specifications

**Wind Speed, maximum** 200 km/h (124 mph)

## 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** 6.5 L

**Weight, net** 7 kg | 15.432 lb

## Regulatory Compliance/Certifications

### Agency

ISO 9001:2015

### Classification

Designed, manufactured and/or distributed under this quality management system



# E16S02P68

---

## \* Footnotes

**License Band, LNA** License Bands that have RxUplink amplification