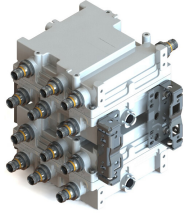


# CTX6826Q-DS-43 | E14F10P50



## Quad Triplexer 600/800/AWS-PCS-WCS-BRS, DC Sense, 4.3-10

- New 4.3-10 connectors for improved PIM performance and size reduction
- Automatic dc switching with dc sense
- BTS-to-feeder and feeder-to-antenna application
- Convertible mounting brackets
- DC Load Sense in Feeder-to-Antenna applications

### OBSOLETE

This product was discontinued on: March 30, 2024

## Product Classification

**Product Type** Triplexer

## General Specifications

**Color** Gray

**Common Port Label** Common

**Modularity** 4-Quad

**Mounting** Pole | Wall

**RF Connector Interface** 4.3-10 Female

**RF Connector Interface Body Style** Long neck

## Dimensions

**Height** 200 mm | 7.874 in

**Width** 200 mm | 7.874 in

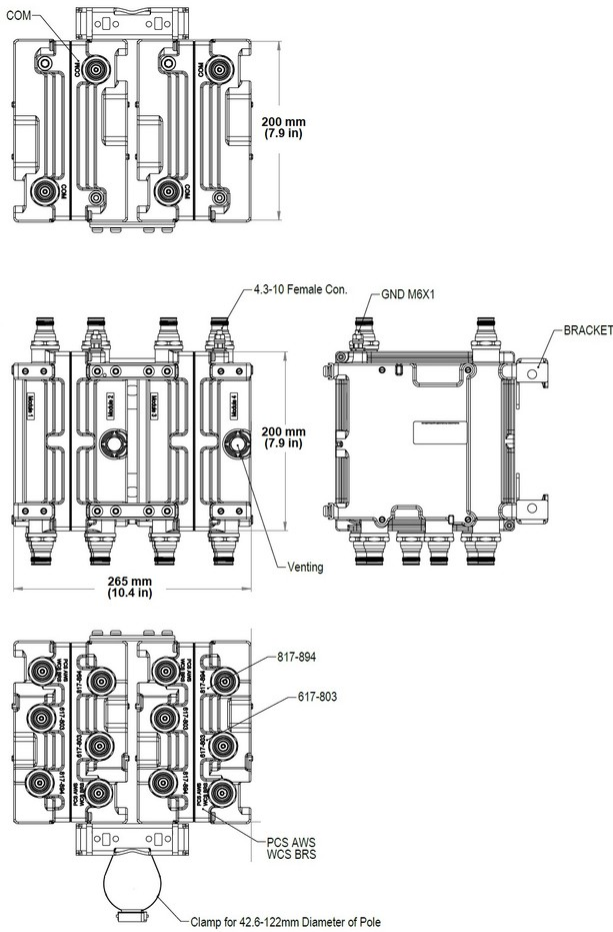
**Depth** 265 mm | 10.433 in

**Ground Screw Diameter** 6 mm | 0.236 in

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

## Outline Drawing

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## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>License Band, Band Pass</b>	AWS 1700   CEL 850   DCS 1800   IMT 2100   LMR 800   PCS 1900   TDD 2600   USA 600   USA 700   USA 750   WCS 2300

## Electrical Specifications, Common Port

<b>Composite Power, RMS</b>	250 W
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## Electrical Specifications, dc Power/Alarm

<b>dc/AISG Pass-through Method</b>	Auto sensing
<b>dc/AISG Pass-through Path</b>	See logic table
<b>Lightning Surge Current</b>	10 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform

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**Voltage** 7–30 Vdc

## Electrical Specifications, AISG

**AISG Carrier** 2176 KHz ± 100 ppm  
**Insertion Loss, maximum** 1 dB  
**Return Loss, minimum** 15 dB

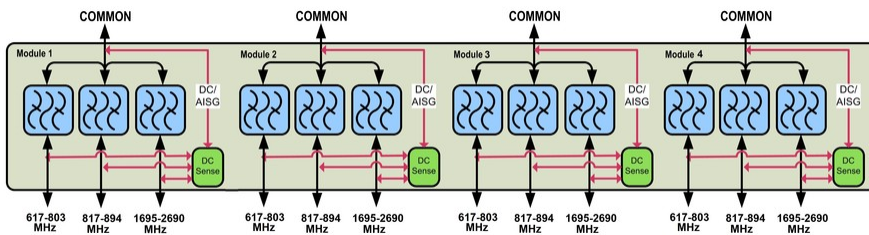
## Electrical Specifications

Sub-module	1   2   3   4	1   2   3   4	1   2   3   4
<b>Branch</b>	1	2	3
<b>Port Designation</b>	617–803	817-894	1695-2690
<b>License Band</b>	USA 700, Band Pass USA 750, Band Pass USA 600, Band Pass	CEL 850, Band Pass LMR 800, Band Pass	AWS 1700, Band Pass PCS 1900, Band Pass WCS 2300, Band Pass TDD 2600, Band Pass

## Electrical Specifications, Band Pass

Frequency Range, MHz	617–803	817–894	1695–2200 2300–2690
<b>Insertion Loss, typical, dB</b>	0.2	0.3	0.1
<b>Total Group Delay, maximum, ns</b>	60	65	25
<b>Return Loss, typical, dB</b>	22	22	22
<b>Isolation, typical, dB</b>	50	50	65
<b>Input Power, RMS, maximum, W</b>	120	120	120
<b>Input Power, PEP, maximum, W</b>	1200	1200	1200
<b>3rd Order PIM, minimum, dBc</b>	-161	-161	-161
<b>3rd Order PIM Test Method</b>	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones

## Block Diagram



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## Logic Table

Combining Mode Operation (Bottom)				
PORT 1 617-803	PORT 2 817-894	PORT 3 1695-2690	COMMON	
RF Ports Input Voltage				DC/AISG Path Selection
Any*	Any*	$7 \leq V \leq 30$	<7	617-803 MHz "OFF" 817-894 MHz "OFF" 1695-2690 MHz "ON"
$7 \leq V \leq 30$	Any*	<7	<7	617-803 MHz "ON" 817-894 MHz "OFF" 1695-2690 MHz "OFF"
<7	$7 \leq V \leq 30$	<7	<7	617-803 MHz "OFF" 817-894 MHz "ON" 1695-2690 MHz "OFF"
<7	<7	<7	<7	ALL PORTS OFF

DC/AISG PORT Priority

PORT 3 [Highest]  
PORT 1  
PORT 2 [Lowest]

\* Any DC voltage applied in the ON (7-30V) or OFF (< 7V) ranges  
 Note: When two or more DC/AISG are available, port with higher priority is bypassed to common

Splitting Mode Operation (Tower Top)				
RF Ports Impedance DC (Load Sense)				
PORT 1 617-803	PORT 2 817-894	PORT 3 1695-2690	COMMON	DC/AISG Path Selection
Short	Short	Short	$7 \leq V \leq 30$	ALL PORTS OFF
Open/ Load	Open/ Load	Open/ Load	$7 \leq V \leq 30$	ALL PORTS ON
One or more port(s) are Open/ Load			$7 \leq V \leq 30$	DC/AISG will be passed to ALL Open/Load port(s)

Note: In this mode DC/AISG will be passed to all detected ports and blocked at shortened ones

## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +65 °C (-40 °F to +149 °F)
<b>Relative Humidity</b>	5%–100%
<b>Corrosion Test Method</b>	IEC 60068-2-11, 30 days
<b>Ingress Protection Test Method</b>	IEC 60529:2001, IP67

## Packaging and Weights

<b>Included</b>	Mounting hardware
<b>Mounting Hardware Weight</b>	0.5 kg   1.102 lb
<b>Volume</b>	10.6 L
<b>Weight, without mounting hardware</b>	12.5 kg   27.558 lb

## Regulatory Compliance/Certifications

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