

# AISG Modes of Multi Band TMAs User Guide



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## 1 General

This document describes the different possible modes of Amphenol Antenna Solutions multi band AISG TMAs. It also describes how to change between the modes. The description is for using a AISG Primary Device and it requires that the TMA has been found and correctly setup with the AISG Primary Device prior to change mode of TMA. A CCU or MCU from other vendors can also be used and the procedure will be similar.

## 2 Operation Modes

See tables below for a description about all available modes of TMA. A more detailed description of the different modes can be found further down.

### Dual Band TMAs

Operation Mode	Number of Addresses	Number of Subunits	Supply Voltage
2XTWIN	1*	2*	Separate (Independent AISG)
TWOTWO	2	2	Common
ONETWO	1	2	Common
ONEFOR	1	4	Common

\* This mode requires one DC+AISG controller on each BTS-port. All other modes require only one AISG controller at any BTS-port and this AISG controller will control both TMA-sides.

### Triple Band TMAs

Operation Mode	Number of Addresses	Number of Subunits	Supply Voltage
2XTWIN	1*	2*	Separate (Independent AISG)
TWOTWO	2	2	Common
TRITWO	3	2	Common

\* This mode requires one DC+AISG controller on each BTS-port. All other modes require only one AISG controller at any BTS-port and this AISG controller will control both TMA-sides.

## 3 Operation Modes - Dual Band TMAs

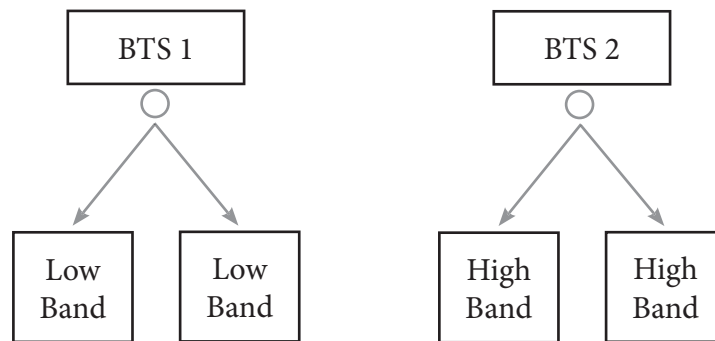
### Dual Band TMAs

Operation Mode	Number of Addresses	Number of Subunits	Supply Voltage
2XTWIN	1*	2*	Separate (Independent AISG)
TWOTWO	2	2	Common
ONETWO	1	2	Common
ONEFOR	1	4	Common

\* This mode requires one DC+AISG controller on each BTS-port. All other modes require only one AISG controller at any BTS-port and this AISG controller will control both TMA-sides.

### 3.1 2XTWIN

This mode makes it possible to control a multi band TMA as two standard single band Twin TMA by dividing the control between the two BTS ports. The TMA is seen as 1 logic unit on each BTS- port with 2 subunits each.



**TMA Status:**

Name	[Subunit]	Sector ID	Antenna Serial	Mode	Gain [dB]	Status
TMA 1	1	---	---	ON	12.00	OK
	2	---	---	ON	12.00	OK

Image 1\* (above) - shows configuration after successful device scan on BTS 1 or BTS 2. One TMA with two subunits are found.

TMA Information		TMA Detailed Setup	
Device Name :	TMA 1	Sector ID :	---
SubUnit / Channel :	1	Mode :	ON
Vendor ID :	AAS	Gain [dB] :	12.00
Product Number :	473057A.101	Clear Device Errors :	Clear Errors
Serial Number :	UY132612345_2.1	Reset Device :	Reset
Hardware Version :	A	Status :	OK
Software Version :	1.0.9	Antenna Model Number :	
<b>TMA Additional Data</b>		Antenna Serial Number :	
Receive Frequency Band :	1920.0 - 1980.0 MHz	Antenna Bearing :	0
Transmit Frequency Band :	2110.0 - 2170.0 MHz	Mechanical Tilt :	0.0
Maximum Supported Gain :	12.00	Installation Date :	
Minimum Supported Gain :	12.00	Installers ID :	---
Gain Resolution :	0.00	Base Station ID :	---
<b>Connection Information</b>		Additional Description 1 :	
Physically installed on :	Connector A	Additional Description 2 :	
Protocol Version :	3GPP / AISG 2		

Image 2\* (above) - shows details for subunit 1 on BTS 1 on a 2100/2600 TMA. Subunit 2 on same BTS port will show same information.

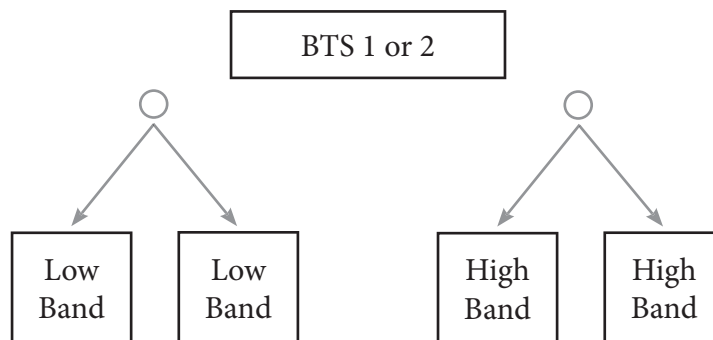
\*All Images are samples of possible screen depiction and are strictly for reference only. Actual screen appearance may differ. Please contact your sales representative or visit [www.amphenol-antennas.com](http://www.amphenol-antennas.com) for additional information.

TMA Information		TMA Detailed Setup	
Device Name :	TMA 1	Sector ID :	-- <input type="text"/> <input type="button" value="Set"/>
SubUnit / Channel :	1	Mode :	ON <input type="button" value="Set Mode"/> <input type="button" value="Get Mode"/>
Vendor ID :	AAS	Gain [dB] :	12.00 <input type="button" value="Get Gain"/>
Product Number :	473057A.101	Clear Device Errors :	<input type="button" value="Clear Errors"/>
Serial Number :	UY132612345_2.6	Reset Device :	<input type="button" value="Reset"/>
Hardware Version :	A	Status :	OK
Software Version :	1.0.9	Antenna Model Number :	<input type="text"/> <input type="button" value="Set"/>
<b>TMA Additional Data</b>		Antenna Serial Number :	<input type="text"/> <input type="button" value="Set"/>
Receive Frequency Band :	2500.0 - 2570.0 MHz	Antenna Bearing :	0 <input type="button" value="Set"/>
Transmit Frequency Band :	2620.0 - 2690.0 MHz	Mechanical Tilt :	0.0 <input type="button" value="Set"/>
Maximum Supported Gain :	12.00	Installation Date :	<input type="text"/> <input type="button" value="Set"/>
Minimum Supported Gain :	12.00	Installers ID :	-- <input type="text"/> <input type="button" value="Set"/>
Gain Resolution :	0.00	Base Station ID :	-- <input type="text"/> <input type="button" value="Set"/>
<b>Connection Information</b>		Additional Description 1 :	<input type="text"/> <input type="button" value="Set"/>
Physically installed on :	Connector A	Additional Description 2 :	<input type="text"/> <input type="button" value="Set"/>
Protocol Version :	3GPP / AISG 2		

Image 3\* (above) - shows details for subunit 1 on BTS 2 on a 2100/2600 TMA. Subunit 2 on same BTS port will show same information.

### 3.2 TWOTWO

In this mode the multi band TMA is seen as 2 logic units with 2 subunits each and it is only required to connect to one of the two BTS ports. Either port can be used.



TMA Status:								
Name	[Subunit]	Sector ID	Antenna Serial	Mode	Gain [dB]	Status		
TMA 2	1	---	---	ON <input type="button" value="Set Mode"/>	12.00	OK	<input type="button" value="Details"/>	
	2	---	---	ON <input type="button" value="Set Mode"/>	12.00	OK	<input type="button" value="Details"/>	
TMA 1	1	---	---	ON <input type="button" value="Set Mode"/>	12.00	OK	<input type="button" value="Details"/>	
	2	---	---	ON <input type="button" value="Set Mode"/>	12.00	OK	<input type="button" value="Details"/>	

Image 4\* (above) - shows configuration after successful device scan on BTS 1 or BTS 2. Two TMA's with two subunits each are found.

\*All Images are samples of possible screen depiction and are strictly for reference only. Actual screen appearance may differ. Please contact your sales representative or visit [www.amphenol-antennas.com](http://www.amphenol-antennas.com) for additional information.

TMA Information		TMA Detailed Setup	
Device Name :	TMA 1	Sector ID :	<input type="text" value="---"/> <input type="button" value="Set"/>
SubUnit / Channel :	1	Mode :	<input type="text" value="ON"/> <input type="button" value="Set Mode"/> <input type="button" value="Get Mode"/>
Vendor ID :	AAS	Gain [dB] :	<input type="text" value="12.00"/> <input type="button" value="Get Gain"/>
Product Number :	473057A.101	Clear Device Errors :	<input type="button" value="Clear Errors"/>
Serial Number :	UY132612345_2.1	Reset Device :	<input type="button" value="Reset"/>
Hardware Version :	A	Status :	OK
Software Version :	1.0.9	Antenna Model Number :	<input type="text"/> <input type="button" value="Set"/>
<b>TMA Additional Data</b>		Antenna Serial Number :	<input type="text"/> <input type="button" value="Set"/>
Receive Frequency Band :	1920.0 - 1980.0 MHz	Antenna Bearing :	<input type="text" value="0"/> <input type="button" value="Set"/>
Transmit Frequency Band :	2110.0 - 2170.0 MHz	Mechanical Tilt :	<input type="text" value="0.0"/> <input type="button" value="Set"/>
Maximum Supported Gain :	12.00	Installation Date :	<input type="text"/> <input type="button" value="Set"/>
Minimum Supported Gain :	12.00	Installers ID :	<input type="text" value="---"/> <input type="button" value="Set"/>
Gain Resolution :	0.00	Base Station ID :	<input type="text" value="---"/> <input type="button" value="Set"/>
<b>Connection Information</b>		Additional Description 1 :	<input type="text"/> <input type="button" value="Set"/>
Physically installed on :	Connector A	Additional Description 2 :	<input type="text"/> <input type="button" value="Set"/>
Protocol Version :	3GPP / AISG 2		

Image 5\* (above) - shows details for subunit 1 on TMA 1 on a 2100/2600 TMA. Subunit 2 on same TMA will show same information.

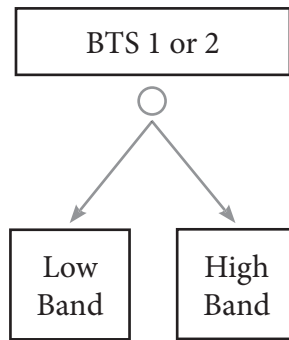
TMA Information		TMA Detailed Setup	
Device Name :	TMA 2	Sector ID :	<input type="text"/> <input type="button" value="Set"/>
SubUnit / Channel :	1	Mode :	<input type="text" value="ON"/> <input type="button" value="Set Mode"/> <input type="button" value="Get Mode"/>
Vendor ID :	AAS	Gain [dB] :	<input type="text" value="12.00"/> <input type="button" value="Get Gain"/>
Product Number :	473057A.101	Clear Device Errors :	<input type="button" value="Clear Errors"/>
Serial Number :	UY132612345_2.6	Reset Device :	<input type="button" value="Reset"/>
Hardware Version :	A	Status :	OK
Software Version :	1.0.9	Antenna Model Number :	<input type="text"/> <input type="button" value="Set"/>
<b>TMA Additional Data</b>		Antenna Serial Number :	<input type="text"/> <input type="button" value="Set"/>
Receive Frequency Band :	2500.0 - 2570.0 MHz	Antenna Bearing :	<input type="text" value="0"/> <input type="button" value="Set"/>
Transmit Frequency Band :	2620.0 - 2690.0 MHz	Mechanical Tilt :	<input type="text" value="0.0"/> <input type="button" value="Set"/>
Maximum Supported Gain :	12.00	Installation Date :	<input type="text"/> <input type="button" value="Set"/>
Minimum Supported Gain :	12.00	Installers ID :	<input type="text"/> <input type="button" value="Set"/>
Gain Resolution :	0.00	Base Station ID :	<input type="text"/> <input type="button" value="Set"/>
<b>Connection Information</b>		Additional Description 1 :	<input type="text"/> <input type="button" value="Set"/>
Physically installed on :	Connector A	Additional Description 2 :	<input type="text"/> <input type="button" value="Set"/>
Protocol Version :	3GPP / AISG 2		

Image 6\* (above) - shows details for subunit 1 on TMA 2 on a 2100/2600 TMA. Subunit 2 on same TMA will show same information.



### 3.3 ONETWO

In this mode the multi band TMA is seen as 1 logic units with 2 subunits and it is only required to connect to one of the two BTS ports. Either port can be used. This means that it is being controlled as a standard Single band Twin TMA but with different frequencies on the subunits corresponding to the two frequencies supported by the multiband TMA.



#### TMA Status:

Name	[Subunit]	Sector ID	Antenna Serial	Mode	Gain [dB]	Status
TMA 1	1	---	---	ON <input type="button" value="Set Mode"/>	12.00	OK <input type="button" value="Details"/>
	2	---	---	ON <input type="button" value="Set Mode"/>	12.00	OK <input type="button" value="Details"/>

Image 7\* (above) - shows configuration after successful devicescan on BTS 1 or BTS 2. One TMA with two subunits are found.

TMA Information		TMA Detailed Setup	
Device Name :	TMA 1	Sector ID :	--- <input type="button" value="Set"/>
SubUnit / Channel :	1	Mode :	ON <input type="button" value="Set Mode"/> <input type="button" value="Get Mode"/>
Vendor ID :	AAS	Gain [dB] :	12.00 <input type="button" value="Get Gain"/>
Product Number :	473057A.101	Clear Device Errors :	<input type="button" value="Clear Errors"/>
Serial Number :	UY132612345_2.1	Reset Device :	<input type="button" value="Reset"/>
Hardware Version :	A	Status :	OK
Software Version :	1.0.9	Antenna Model Number :	<input type="text"/> <input type="button" value="Set"/>
<b>TMA Additional Data</b>		Antenna Serial Number :	<input type="text"/> <input type="button" value="Set"/>
Receive Frequency Band :	1920.0 - 1980.0 MHz	Antenna Bearing :	0 <input type="button" value="Set"/>
Transmit Frequency Band :	2110.0 - 2170.0 MHz	Mechanical Tilt :	0.0 <input type="button" value="Set"/>
Maximum Supported Gain :	12.00	Installation Date :	<input type="text"/> <input type="button" value="Set"/>
Minimum Supported Gain :	12.00	Installers ID :	--- <input type="button" value="Set"/>
Gain Resolution :	0.00	Base Station ID :	--- <input type="button" value="Set"/>
<b>Connection Information</b>		Additional Description 1 :	<input type="text"/> <input type="button" value="Set"/>
Physically installed on :	Connector A	Additional Description 2 :	<input type="text"/> <input type="button" value="Set"/>
Protocol Version :	3GPP / AISG 2		

Image 8\* (above) - shows details for subunit 1 on a 2100/2600 TMA.

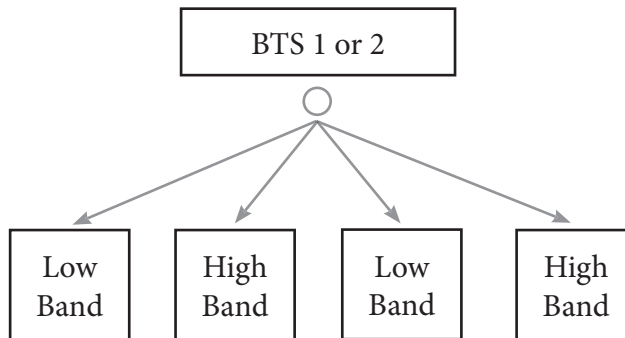
\*All Images are samples of possible screen depiction and are strictly for reference only. Actual screen appearance may differ. Please contact your sales representative or visit [www.amphenol-antennas.com](http://www.amphenol-antennas.com) for additional information.

TMA Information		TMA Detailed Setup	
Device Name :	TMA 1	Sector ID :	<input type="text"/> <input type="button" value="Set"/>
SubUnit / Channel :	2	Mode :	ON <input type="button" value="Set Mode"/> <input type="button" value="Get Mode"/>
Vendor ID :	AAS	Gain [dB] :	12.00 <input type="button" value="Get Gain"/>
Product Number :	473057A.101	Clear Device Errors :	<input type="button" value="Clear Errors"/>
Serial Number :	UY132612345_2.1	Reset Device :	<input type="button" value="Reset"/>
Hardware Version :	A	Status :	OK
Software Version :	1.0.9	Antenna Model Number :	<input type="text"/> <input type="button" value="Set"/>
<b>TMA Additional Data</b>		Antenna Serial Number :	<input type="text"/> <input type="button" value="Set"/>
Receive Frequency Band :	2500.0 - 2570.0 MHz	Antenna Bearing :	0 <input type="button" value="Set"/>
Transmit Frequency Band :	2620.0 - 2690.0 MHz	Mechanical Tilt :	0.0 <input type="button" value="Set"/>
Maximum Supported Gain :	12.00	Installation Date :	<input type="text"/> <input type="button" value="Set"/>
Minimum Supported Gain :	12.00	Installers ID :	<input type="text"/> <input type="button" value="Set"/>
Gain Resolution :	0.00	Base Station ID :	<input type="text"/> <input type="button" value="Set"/>
<b>Connection Information</b>		Additional Description 1 :	<input type="text"/> <input type="button" value="Set"/>
Physically installed on :	Connector A	Additional Description 2 :	<input type="text"/> <input type="button" value="Set"/>
Protocol Version :	3GPP / AISG 2		

Image 9\* (above) - shows details for subunit 2 on a 2100/2600 TMA.

### 3.4 ONEFOR

In this mode the multi band TMA is seen as 1 logic units with 4 subunits each and it is only required to connect to one of the two BTS ports. Either port can be used.



**TMA Status:**

Name	[Subunit]	Sector ID	Antenna Serial	Mode	Gain [dB]	Status	
TMA 1	1	---	---	ON <input type="button" value="Set Mode"/>	12.00	OK	<input type="button" value="Details"/>
	2	---	---	ON <input type="button" value="Set Mode"/>	12.00	OK	<input type="button" value="Details"/>
	3	---	---	ON <input type="button" value="Set Mode"/>	12.00	OK	<input type="button" value="Details"/>
	4	---	---	ON <input type="button" value="Set Mode"/>	12.00	OK	<input type="button" value="Details"/>

Image 10\* (above) - shows configuration after successful device scan on BTS 1 or BTS 2. One TMA with four subunits are found.

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TMA Information		TMA Detailed Setup	
Device Name :	TMA 1	Sector ID :	<input type="text"/> Set
SubUnit / Channel :	1	Mode :	ON <input type="button" value="Set Mode"/> <input type="button" value="Get Mode"/>
Vendor ID :	AAS	Gain [dB] :	12.00 <input type="button" value="Get Gain"/>
Product Number :	473057A.101	Clear Device Errors :	<input type="button" value="Clear Errors"/>
Serial Number :	UY132612345	Reset Device :	<input type="button" value="Reset"/>
Hardware Version :	A	Status :	OK
Software Version :	1.0.9	Antenna Model Number :	<input type="text"/> Set
<b>TMA Additional Data</b>		Antenna Serial Number :	<input type="text"/> Set
Receive Frequency Band :	1920.0 - 1980.0 MHz	Antenna Bearing :	0 <input type="button" value="Set"/>
Transmit Frequency Band :	2110.0 - 2170.0 MHz	Mechanical Tilt :	0.0 <input type="button" value="Set"/>
Maximum Supported Gain :	12.00	Installation Date :	<input type="text"/> Set
Minimum Supported Gain :	12.00	Installers ID :	<input type="text"/> Set
Gain Resolution :	0.00	Base Station ID :	<input type="text"/> Set
<b>Connection Information</b>		Additional Description 1 :	<input type="text"/> Set
Physically installed on :	Connector A	Additional Description 2 :	<input type="text"/> Set
Protocol Version :	3GPP / AISG 2		

Image 11\* (above) - shows details for subunit 1 on a 2100/2600 TMA.

TMA Information		TMA Detailed Setup	
Device Name :	TMA 1	Sector ID :	<input type="text"/> Set
SubUnit / Channel :	2	Mode :	ON <input type="button" value="Set Mode"/> <input type="button" value="Get Mode"/>
Vendor ID :	AAS	Gain [dB] :	12.00 <input type="button" value="Get Gain"/>
Product Number :	473057A.101	Clear Device Errors :	<input type="button" value="Clear Errors"/>
Serial Number :	UY132612345	Reset Device :	<input type="button" value="Reset"/>
Hardware Version :	A	Status :	OK
Software Version :	1.0.9	Antenna Model Number :	<input type="text"/> Set
<b>TMA Additional Data</b>		Antenna Serial Number :	<input type="text"/> Set
Receive Frequency Band :	2500.0 - 2570.0 MHz	Antenna Bearing :	0 <input type="button" value="Set"/>
Transmit Frequency Band :	2620.0 - 2690.0 MHz	Mechanical Tilt :	0.0 <input type="button" value="Set"/>
Maximum Supported Gain :	12.00	Installation Date :	<input type="text"/> Set
Minimum Supported Gain :	12.00	Installers ID :	<input type="text"/> Set
Gain Resolution :	0.00	Base Station ID :	<input type="text"/> Set
<b>Connection Information</b>		Additional Description 1 :	<input type="text"/> Set
Physically installed on :	Connector A	Additional Description 2 :	<input type="text"/> Set
Protocol Version :	3GPP / AISG 2		

Image 12\* (above) - shows details for subunit 2 on a 2100/2600 TMA.

TMA Information		TMA Detailed Setup	
Device Name :	TMA 1	Sector ID :	<input type="text"/> Set
SubUnit / Channel :	3	Mode :	ON <input type="button" value="Set Mode"/> <input type="button" value="Get Mode"/>
Vendor ID :	AAS	Gain [dB] :	12.00 <input type="button" value="Get Gain"/>
Product Number :	473057A.101	Clear Device Errors :	<input type="button" value="Clear Errors"/>
Serial Number :	UY132612345	Reset Device :	<input type="button" value="Reset"/>
Hardware Version :	A	Status :	OK
Software Version :	1.0.9	Antenna Model Number :	<input type="text"/> Set
<b>TMA Additional Data</b>		Antenna Serial Number :	<input type="text"/> Set
Receive Frequency Band :	1920.0 - 1980.0 MHz	Antenna Bearing :	0 <input type="button" value="Set"/>
Transmit Frequency Band :	2110.0 - 2170.0 MHz	Mechanical Tilt :	0.0 <input type="button" value="Set"/>
Maximum Supported Gain :	12.00	Installation Date :	<input type="text"/> Set
Minimum Supported Gain :	12.00	Installers ID :	<input type="text"/> Set
Gain Resolution :	0.00	Base Station ID :	<input type="text"/> Set
<b>Connection Information</b>		Additional Description 1 :	<input type="text"/> Set
Physically installed on :	Connector A	Additional Description 2 :	<input type="text"/> Set
Protocol Version :	3GPP / AISG 2		

Image 13\* (above) - shows details for subunit 3 on a 2100/2600 TMA.

TMA Information		TMA Detailed Setup	
Device Name :	TMA 1	Sector ID :	<input type="text"/> Set
SubUnit / Channel :	4	Mode :	ON <input type="button" value="Set Mode"/> <input type="button" value="Get Mode"/>
Vendor ID :	AAS	Gain [dB] :	12.00 <input type="button" value="Get Gain"/>
Product Number :	473057A.101	Clear Device Errors :	<input type="button" value="Clear Errors"/>
Serial Number :	UY132612345	Reset Device :	<input type="button" value="Reset"/>
Hardware Version :	A	Status :	OK
Software Version :	1.0.9	Antenna Model Number :	<input type="text"/> Set
<b>TMA Additional Data</b>		Antenna Serial Number :	<input type="text"/> Set
Receive Frequency Band :	2500.0 - 2570.0 MHz	Antenna Bearing :	0 <input type="button" value="Set"/>
Transmit Frequency Band :	2620.0 - 2690.0 MHz	Mechanical Tilt :	0.0 <input type="button" value="Set"/>
Maximum Supported Gain :	12.00	Installation Date :	<input type="text"/> Set
Minimum Supported Gain :	12.00	Installers ID :	<input type="text"/> Set
Gain Resolution :	0.00	Base Station ID :	<input type="text"/> Set
<b>Connection Information</b>		Additional Description 1 :	<input type="text"/> Set
Physically installed on :	Connector A	Additional Description 2 :	<input type="text"/> Set
Protocol Version :	3GPP / AISG 2		

Image 14\* (above) - shows details for subunit 4 on a 2100/2600 TMA.

## 4 Operation Modes - Triple Band TMAs

See table and pictures below for a description about all available modes of TMA. A more detailed description of the different modes can be found further down.

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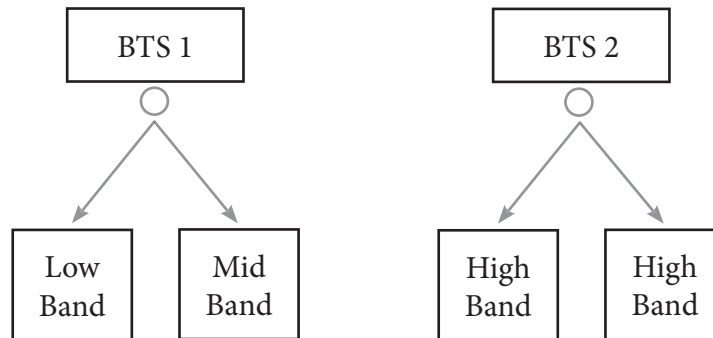
### Triple Band TMAs

Operation Mode	Number of Addresses	Number of Subunits	Supply Voltage
2XTWIN	1*	2*	Separate (Independent AISG)
TWOTWO	2	2	Common
TRITWO	3	2	Common

\* This mode requires one DC+AISG controller on each BTS-port. All other modes require only one AISG controller at any BTS-port and this AISG controller will control both TMA-sides.

#### 4.1 2XTWIN

This mode makes it possible to control a multi band TMA as two standard single band Twin TMA by dividing the control between the two BTS ports. The TMA is seen as 1 logic unit on each BTS- port with 2 subunits each.

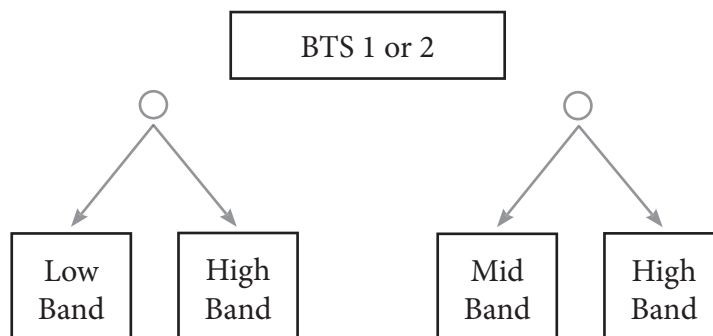


Below table shows configuration after successful device scan on BTS 1 or BTS 2. One TMA with two subunits are found.

TTA-TU100N, 2XTWIN	
BTS 1	BTS 2
1800/2100	2600/2600

#### 4.2 TWOTWO

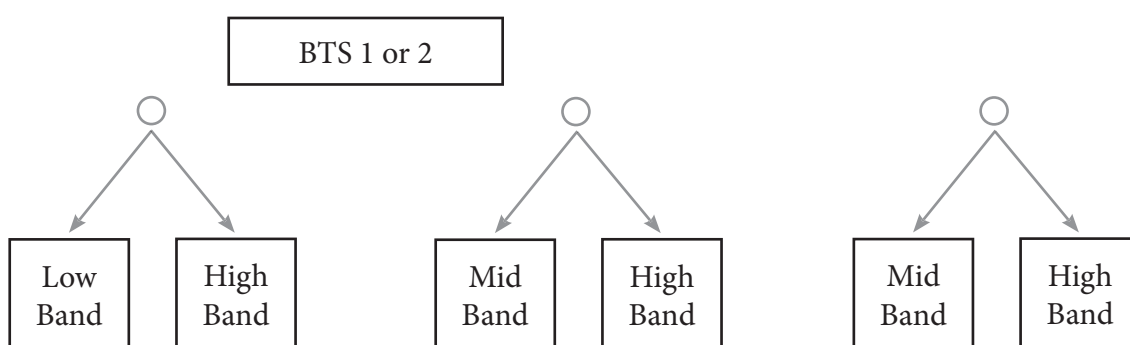
In this mode the triple band TMA is seen as 2 logic units with 2 subunits each and it is only required to connect to one of the two BTS ports. Either port can be used.



TTA-TU100H, TWOTWO	
BTS 1 or 2	
1800/2100	
2600/2600	

### 4.3 TRITWO

The TMA is seen as 3 logic unit on each BTS-port with 2 subunits each.



TTA-TU101H, TRITWO	
BTS 1 or 2	
1800/2100	
2100/2100	
2600/2600	

## 5 Change Mode of TMA

This setting is available for SW version 1.0.9 and above.

1. Select "Devices Status" and then select "Details" of any subunit. Write desired operation mode in field "Installation Date". See chapter 2 for description of available operation modes of TMA. Text must be exactly as described in the table in chapter 2. Six characters in uppercase. It is enough to write operation mode to only one subunit.
2. Press button "Set" and after around 5 s press button "Reset". Operation mode of TMA is now changed.

To see if CCU has detected the new AISG configuration you select "Devices Setup" and then "Scan Sub Menu". Check how many devices and subunits that CCU has found. If CCU has not automatically detected the new AISG configuration you have to restart scan and then select "Clear & Import -> Setup" or "Import -> Setup". Then you press button "Save Devices Setup" if you want to save setup on CCU.



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