

6400-141 Frequency Converter Option

(Band Class 5- 450 MHz)

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A passion for performance.



- Enables Band Class 5 conformance script testing for CCF, CDG, CTIA test plans
- Applicable to both the 6204 and 6402 CDMA AIME Test Systems
- Band Class 5 operation is achieved by performing frequency conversion on the RF signal in both directions.
- Includes connections for two Channels corresponding to two Test Sets/TRx's
- Both channels can be switched between normal and Band Class 5 operation, thus providing full flexibility for handoff testing.



PRODUCT DESCRIPTION

The 6400-141 Frequency Converter unit is an external hardware option, which allows Band Class 5 test cases to be carried out on both the 6204 and 6402 CDMA AIME Test Systems.

The converter unit includes connections for two Channels corresponding to two Test Sets/TRx's.

The operator can manually switch both channels between normal and Band Class 5 operation, thus providing full flexibility for handoff testing.

OVERVIEW

The 6400-141 Frequency Converter unit achieves Band Class 5 operation by performing frequency conversion on the RF signal in both the forward and reverse directions.

The Band Class 5 Mobile Station's output signal, in the range of 411 to 484 MHz, is upconverted by 1300 MHz so that it falls within the DCS band. The Test Set/TRx output signal in the DCS band is downconverted by 1385 MHz so that it falls within the Band Class 5 downlink band (421 to 494 MHz).

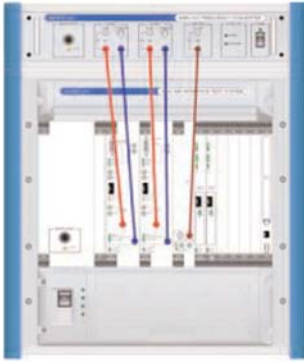
The 6400-141 Frequency Converter unit is connected to the RF Simplex ports of the Test Sets/TRx's within the Test System and connects these ports to a single RF duplex port. Thus the unit replaces the duplex function of the 6204 RF Combiner Unit or 6402 Radio Signal Router. It can be used with single or dual Test Set/TRx systems but does not have the ability to be used with multiple sub-rack configurations.

All cables required to connect the unit to the 6402 or 6204 are provided.

6402 USAGE

The 6400-141 Frequency Converter unit will be connected to the 6402 Test System through a few simple connections at the front of the system.

The following diagrams illustrate how the unit is used in conjunction with a 6402 Test System.



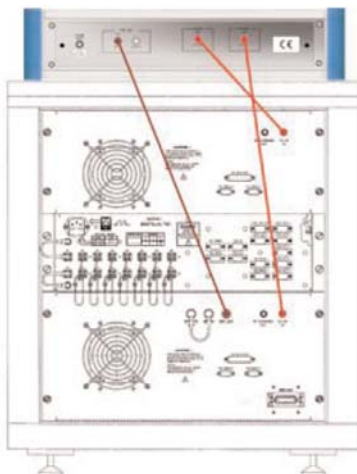
6204 USAGE

A few connections are needed to connect the 6400-141 Frequency Converter unit to the 6204 Test System both at the front and back of the system.

Below is a diagram of the front of the 6204.



Below is a diagram of the back of the 6204 with converter unit.



TECHNICAL SPECIFICATION

(at Main RF Duplex Port)

BAND CLASS 5 MODE

Output Frequency Range

420 – 495 MHz

Output Level Range

-110 to -25 dBm (usable to -120 dBm)

Output Level Accuracy Degradation

±1.0 dB

Input Frequency Range

410 – 485 MHz

Input Level Range

-40 to 0 dBm

Input Level Measurement Accuracy Degradation

±1.0 dB

Absolute Maximum Input Level

±1.0 dB

Absolute Maximum Input Level

8 W RMS

NORMAL MODE

Output Frequency Range

800 – 2200 MHz

Output Level Range

-110 to -25 dBm (usable to -120 dBm)

Output Level Accuracy Degradation

±2.0 dB

Input Frequency Range

800 – 2200 MHz

Input Level Range

-40 to +39 dBm

Input Level Measurement Accuracy Degradation

±2.0 dB

Absolute Maximum Input Level

8 W RMS

LICENSE OPTIONS

The Frequency Converter unit for Band Class 5 support is obtained through the following options:

- 6204-172 - Band class 5 frequency converter for 6204
- 6402-172R - Band class 5 frequency converter for 6204 with retrofit
- 6402-172 - Band class 5 frequency converter for 6402

For the very latest specifications visit www.aeroflex.com

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