



Kingray KCC-110 Channel Convertor Processor Instruction Manual

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Kingray

Kingray KCC-110 Channel Convertor Processor



The KCC-110 is the most advanced Channel Converter/Processor available and is designed and manufactured in Australia. It can be used either as a Channel Converter to convert an input channel to a different output channel or as a Channel Processor where the input and output channels are the same. KCC-110 Channel Converter/Processors are capable of operating on adjacent input and output channels. The KCC-110 is designed to be used with the KLA-110 launch Amplifier/PowerSupply; however, for stand-alone operation the KCC-110 can be powered by a PSK24 power supply. For programming instructions, please refer to the Programming Manual.



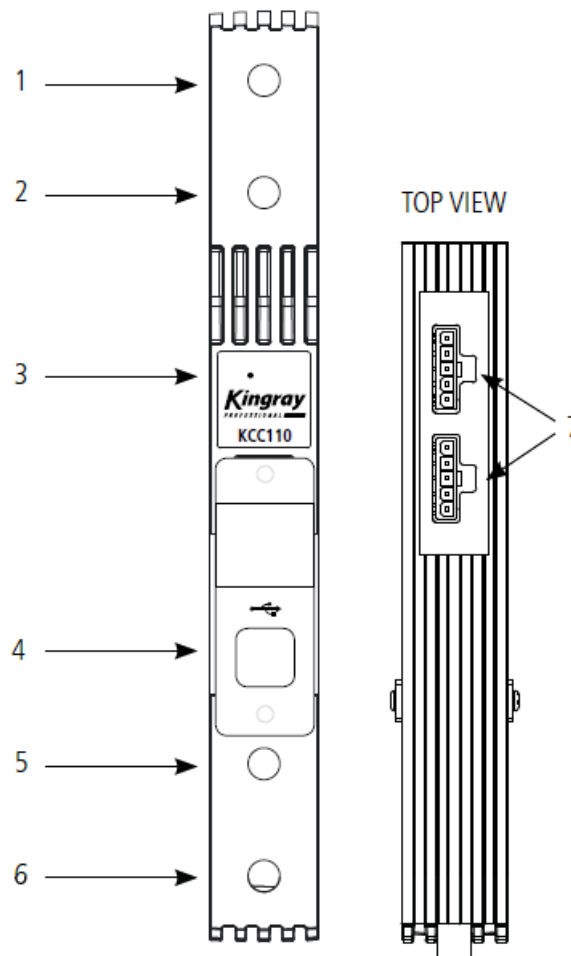
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- 1 x KCC-110 module
- 2 x RF jumper cables
- 1 x Power/bus cable

- 1 x Spare label
- 2 x Cable support bracket

CONNECTION DIAGRAM

1. RF Input
2. RF Input (link)
3. Power/status LED
4. USB port (for programming single module)
5. RF output (link)
6. Output
7. DC power/data bus (link)

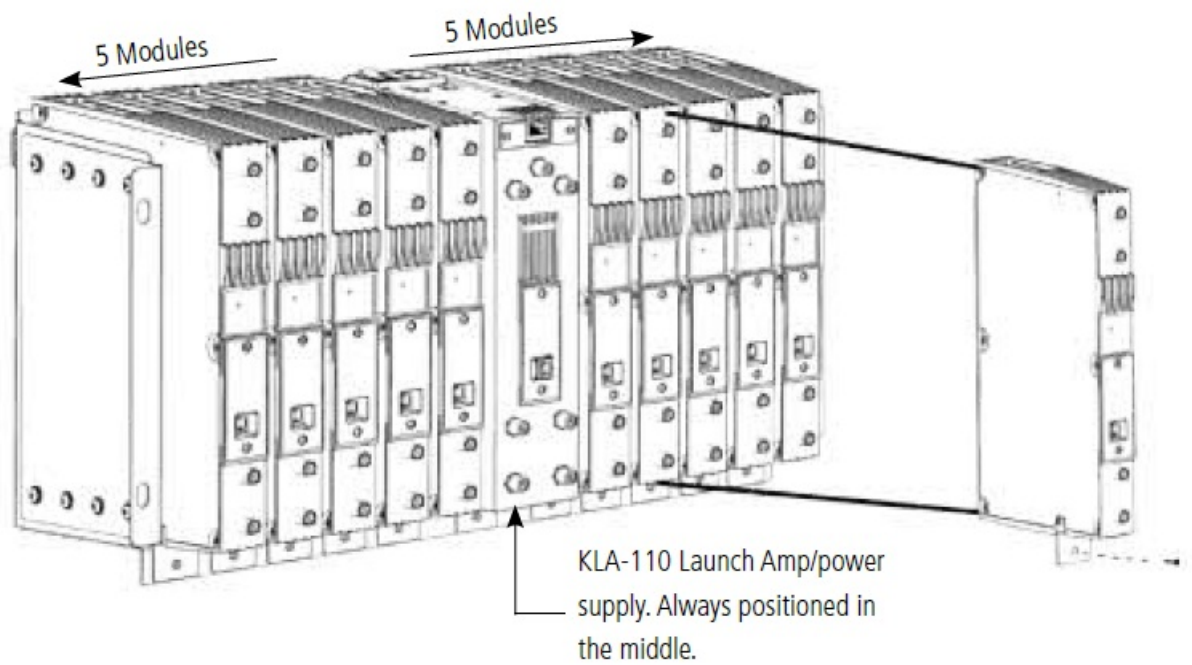


When connecting several modules into a rack, first mount the KR-110 rack securely on the wall or in the 19" cabinet and then mount the modules in the rack with the locating screw on the bottom of the module (Fig.1). Next connect the RF input and RF output links as shown on the drawing (Fig.2). Once mounted, connect the Power and Bus cable at the top of each module (Fig.3). When all modules have been mounted and plugged in, switch power on (Fig.4).

Note:

When connecting a mix of channel converters and USB modulators, make sure the VSB modulators are installed furthest away from the launch amplifier.

FIG.1 Installing modules



When connecting the RF link cables, always install a 75 ohm terminator in any unused inputs/outputs.

FIG.2 RF cable connection

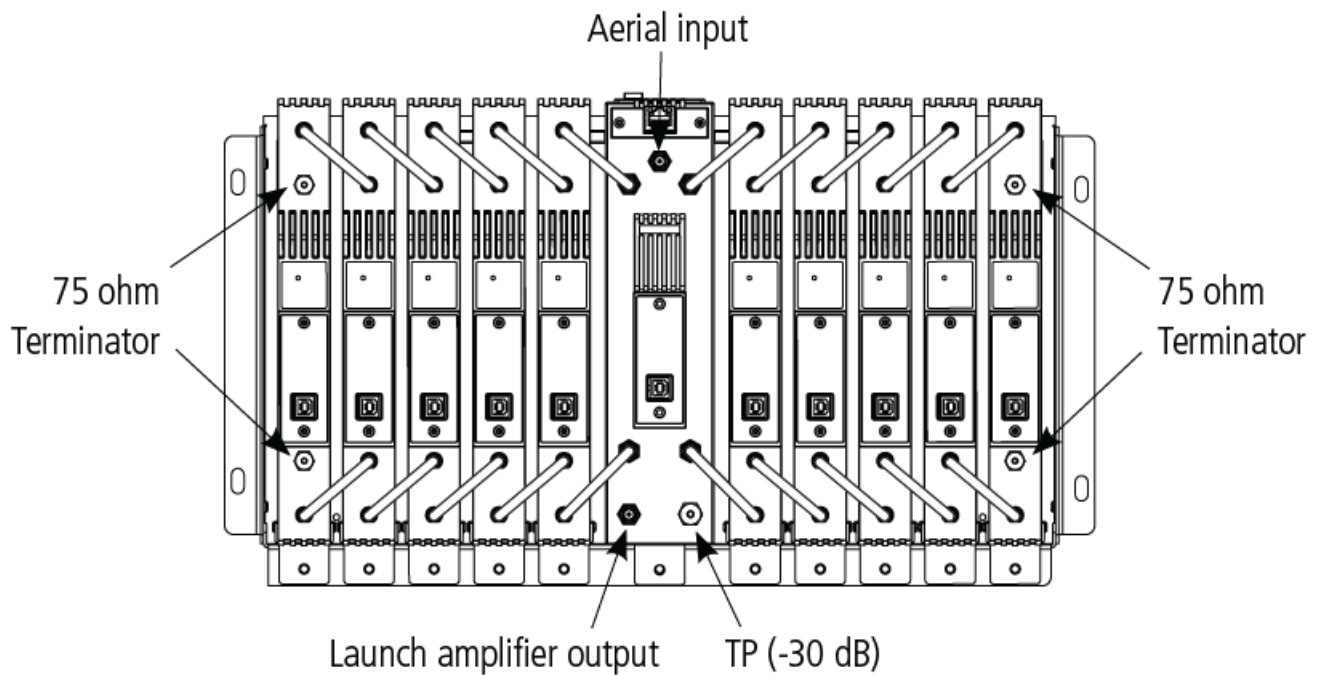
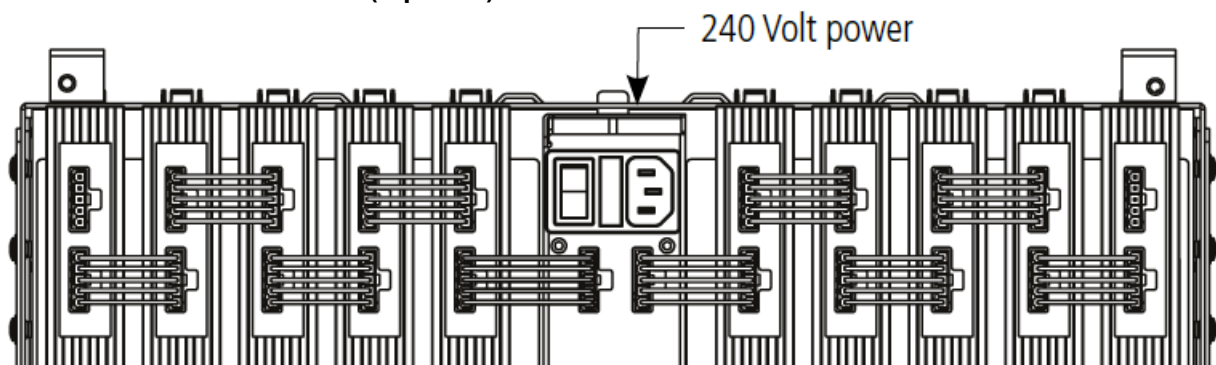
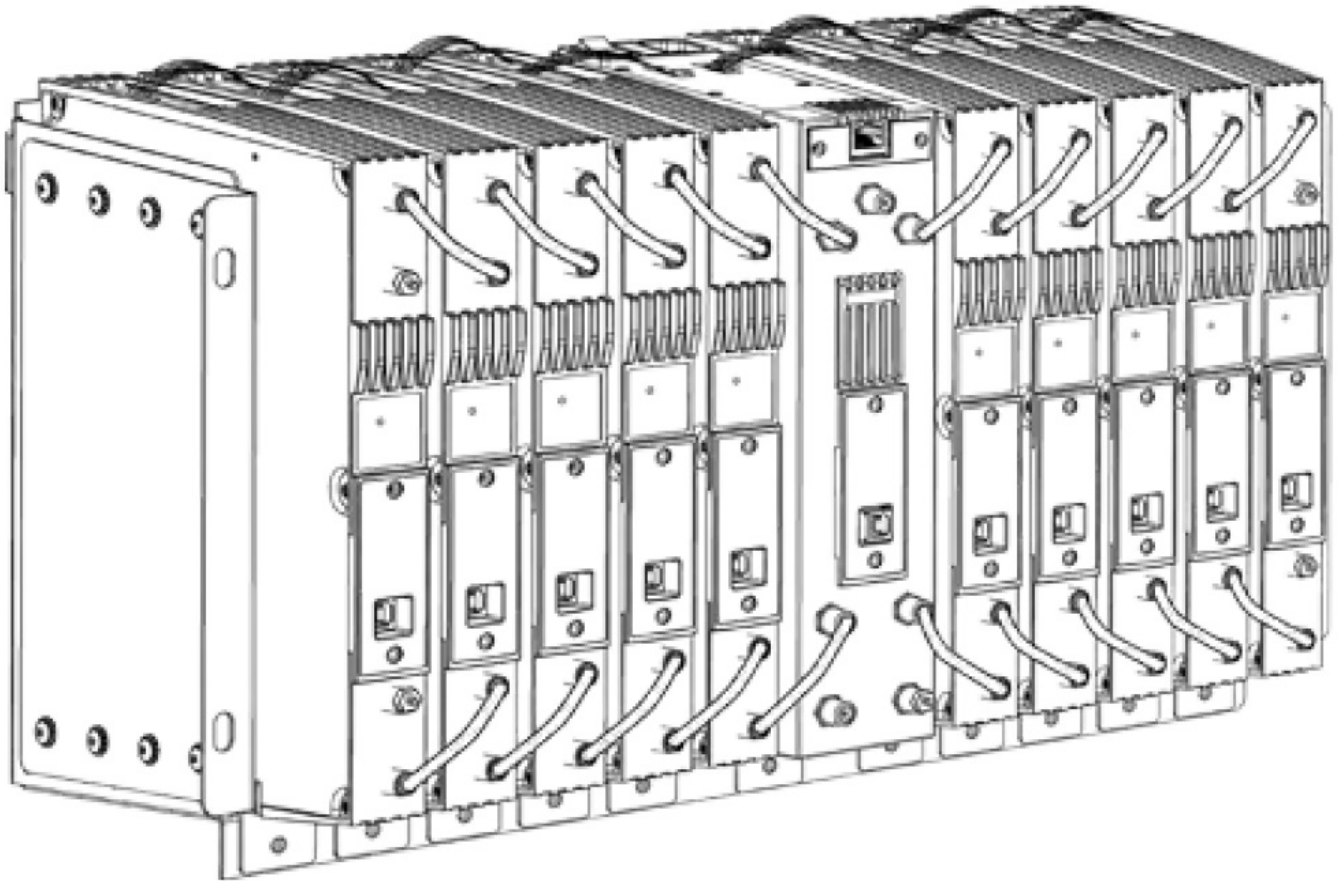


FIG.3 Power data/bus connection (top view)



Once everything has been installed and correctly cabled, the system is now ready for programming via your computer. See programming manual.

FIG. 4 Completed system



KCC-110 Specification

KCC-110 Specifications	
Input Frequency Range	44-862 MHz
Output Frequency Range	44-862 MHz
Frequency Resolution	0.125 MHz
Input/Output Channel Naming	By frequency, software selectable
Channel Bandwidth	7/8 MHz
Output S/N and Spurious	> 55 dB
Input Level Range	65-95 dBuV (looped input)
AGC Range	30 dB min. automatic
Output Level Adjustment	60-80 dBuV (looped output)
Output Connector	Female F type
Phase Noise	< -85 dBC / Hz at 10 kHz, < -103 dBC / Hz at 100 kHz
Noise Figure	< 9 dB
Monitor Output (T.P.)	-30 dB
AGC LED	green-within range, amber-Low level, red-excessive level
RF Input/Output Level Monitor	Led on front or via software
Supply Voltage	24 VdC
Power Consumption	12w max
Operating Temperature Range	0-55 °C
RF Shielding	> 70 dB

Statutory Warranties

1. The Trade Practices Act Part V, Division 2A and other legislation imply conditions, warranties and other obligations on us to consumers that cannot be excluded, restricted or modified. Those provisions apply to the extent required by law.
2. We exclude all other conditions, warranties and obligations which would otherwise be implied concerning the activities covered by this agreement.
3. We limit our liability where we are allowed to do so. Examples of where we are allowed to limit liability are
 - (a) you acquire goods from us for re-supply;
 - (b) the goods or services we supply are not of a kind ordinarily acquired for personal, domestic or household use or consumption.
4. Where we are allowed to limit our liability, to the extent permitted by law, our sole liability for breach of a condition, warranty or other obligation implied by law is limited.
 1. in the case of goods we supply, to any one of the following as we decide –
 - the replacement of the goods or the supply of equivalent goods;

- the repair of the goods;
 - the payment of the cost of repairing the goods or of acquiring equivalent goods;
 - the payment of the cost of having the goods repaired; or
2. in the case of services we supply, to any one of the following as we decide –
- the supplying of the services again;
 - the payment of the cost of having the services supplied again.

Additional Warranties

1. The warranties in this clause are in addition to the statutory warranties referred to in the previous clause.
2. We warrant this product to be free from defects in materials and workmanship for three years from the date of original sale (or another period we agree to in writing). During this period and as our sole liability to you under this warranty, we agree to, at our option, either repair or replace goods which we are satisfied are defective. We warrant replacement parts for the remainder of the period of warranty for the goods into which they are incorporated.
3. We warrant our other repairs to be free from defects in materials and workmanship for three months from the date of the original repair. During this period and as our sole liability to you for the repair, we agree to repair or replace (at our option) repaired goods which we are satisfied are defective.
4. We warrant that we will perform services with reasonable care and skill and agree to investigate any complaint made in good faith that we have performed services unsatisfactorily. If we are satisfied that the complaint is justified, and as our sole liability to you under this warranty, we agree to supply those services again at no extra charge to you.
5. If you want warranty service under this clause you must give us an original or copy of the sales invoice from the transaction or some other evidence showing details of the transaction.

Other Limitations

1. You may not rely on any representation, warranty or other provision by or for us which is not covered by clause [1] or repeated in this agreement in clear terms.
2. We are not liable (nor are our employees, contractors and agents) for any damage, economic loss or loss of profits whether direct, indirect, general, special or consequential.
 - arising out of any breach of any implied or express term, condition or warranty; or
 - suffered as a result of our negligence (or that of our employees, contractors or agents) apart from liability as set out in the previous two clauses.
3. The liability of a party under this agreement (whether arising in contract, tort or by statute) is to be reduced by the same proportion as represents the proportion of the loss or damage caused or contributed to by the other party, its contractors or agents.


Kingray After Sales Service

The Kingray KCC-110 is specially designed for the environment encountered in commercial installations. The use of all solid-state circuitry, careful design, and rigorous testing, results in high reliability. Should a failure occur, however, Kingray maintain a fully equipped service facility and spare parts stock to meet the customer's requirements long after the expiry of the warranty period. Standard Communications PTY. LTD warrants this Kingray product to be free from defects in material and workmanship for a period of 3 years from the date of

installation and reserves the right to void the warranty if the unit was misused, improperly installed or damaged by the claimant.

- A division of Standard Communications Pty Ltd.
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- New Zealand: PO Box 58-446 Botany, Auckland, 2163, NZ. T:(09) 274 0955.
- All other international enquires email: export@gme.net.au.

Documents / Resources

	<p>Kingray KCC-110 Channel Converter Processor [pdf] Instruction Manual KCC-110, Channel Converter Processor, KCC-110 Channel Converter Processor, Converter, C onvertor Processor, Processor</p>
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