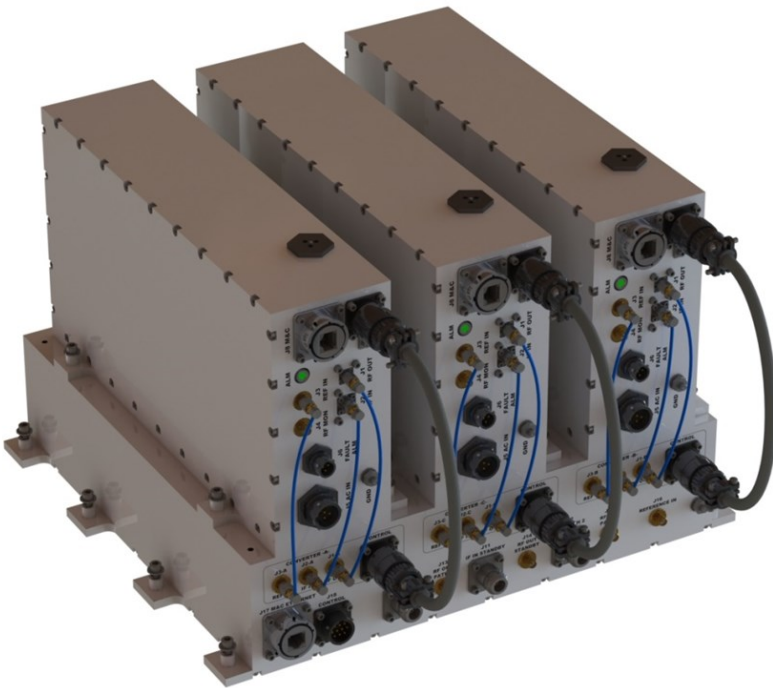


OUTDOOR 1:2 REDUNDANT BLOCK CONVERTER SYSTEM



Jersey Microwave is introducing a fully contained (no external switches) 1:2 Redundancy Switch product that reduces the standard complexity of most existing 1:2 systems. The **Jersey Microwave** “142” (1:2) Redundancy Switch System allows full Monitor and Control from the switch unit or any one of the converters. The “142” switch unit gets its DC power from the online block converters so it is “triple redundant” supplied. The system is fully tested end to end as a complete system. There are two modes of operation “manual” and “auto.”

Features/Options

Low Phase Noise exceeds IES-S308/309 & MIL-STD-188-164A

High Performance

Auto-switchover of 5/10 MHz external reference or manually selectable internal reference

Electronic Adjustment of Internal Reference

Full Monitor and Control Functionality

Ethernet Capability

Standard RS-485 Control

Single Input Reference (Internal Splitter)

Automatic and/or Manual Switch Control

Gain Control

Custom Frequencies

Monitor Ports

Mute Control

Independent Contact Closure Summary Alarm

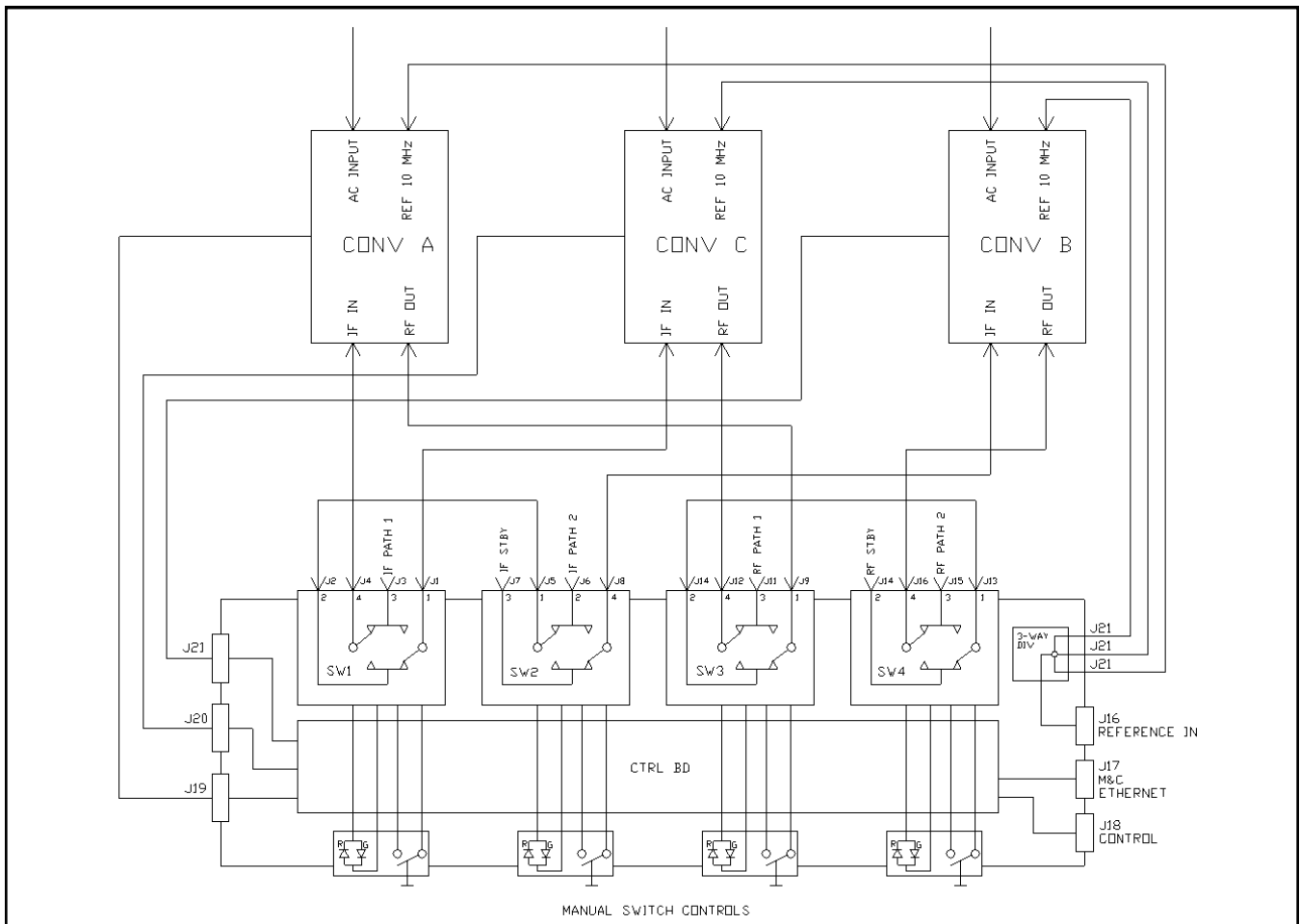
Gain Slope Equalizer

Frequency Band Options

1:2 REDUNDANT ODU | BLOCK CONVERTER

The **Jersey Microwave** “142” series can provide back-up coverage for all **Jersey Microwave** C-Band, X-Band, Ku-Band, DBS Band, and Ka-Band outdoor block converter units. Refer to individual data sheets for performance and available bands. Contact factory for custom requirements.

1:2 Redundant Block Diagram



Custom bands and custom specifications can be provided.

Ordering Information

Select the **Jersey Microwave** Block Converters that you require and add “-142” before the “-ODU” in the model number. The “-142” signifies the 1 for 2 system and the “ODU” signifies that the unit is ruggedized for outdoor use.

Example

KBUC-137145-2010-ODU (Single Band BUC)

KBUC-137145-2010-142-ODU (1:2 Ku-Band Redundancy Systems)

Each redundancy system contains the following:

- 3 Outdoor Block Converter Units (C, X, Ku, DBS, or Ka-Band)
- 1 **Jersey Microwave** 142 Series Redundancy Switching Unit
- 9 RF Cables connecting signal input, output, and reference to each unit
- 3 Control cables connecting switch unit to each block converter

Unit Connections

Connections that you need to make:

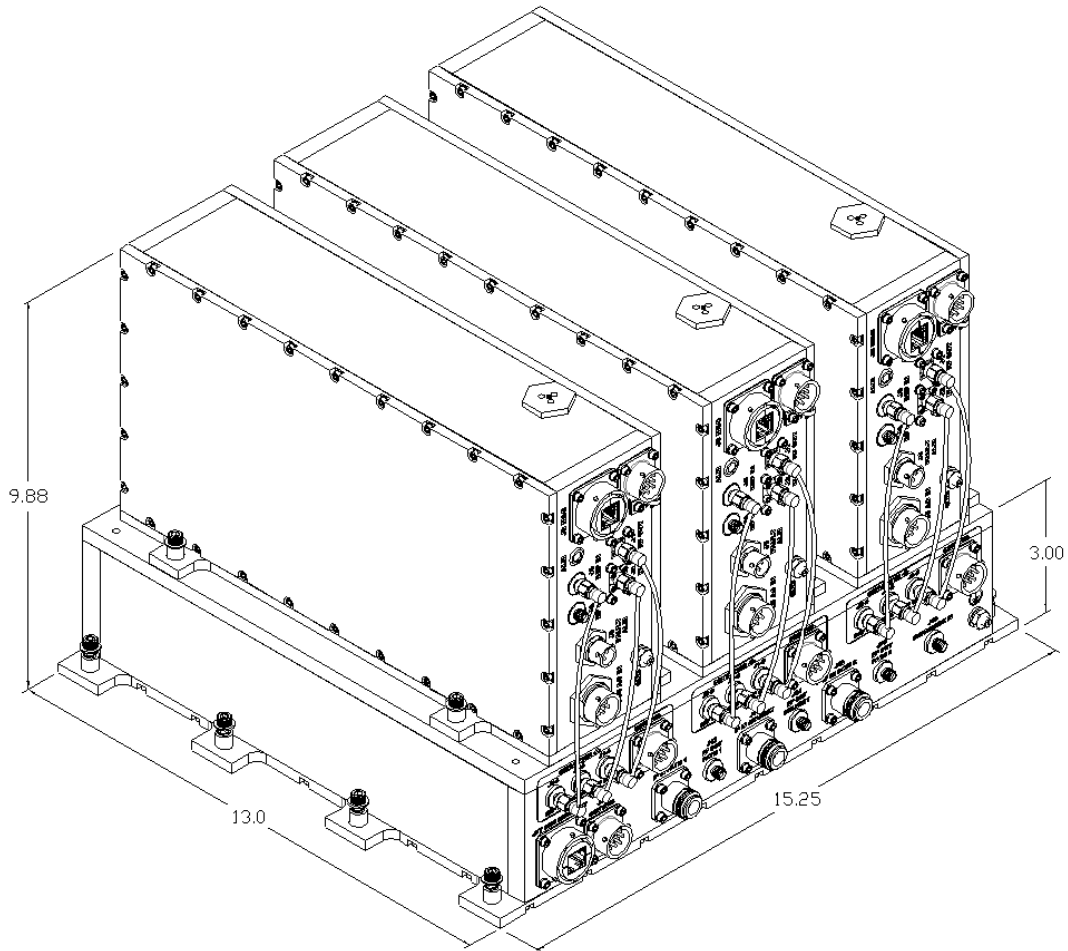
- RF/IF inputs/outputs to switch unit
- Reference input to switch unit
- AC to each converter (3)
- If using Ethernet connection only one connection is needed.

Additional connections you have access to:

- Input / Output monitor port for the standby unit
- Monitor and Control via the control connector or via the Ethernet port

Note - Specifications may change without notice, please consult the factory for your specific needs.

Standard Mechanical Outlines



Note: Dimensions are in inches.

DS-210-02