Advantech Wireless

1:N Switch Controller for Frequency Converters

Features

- One rack unit (1RU) compact shelf
- Low cost for up to 1:12 switching control
- Scalability: 1:2 – 1:12
- Fast alarm detection and switch
- Configuration of each converter is stored and updated
- Single RS-485 port for all units
- An additional RS-485 M&C port for remote control or an integrated M&C system
- Front panel display of status and control functions

Overview

The ARSC Switch Controller for Frequency Converters will handle up to twelve frequency converters and one backup frequency converter for IF input /RF output switching. Use of the Switch Controller for Frequency Converters allows the number of frequency converters to be increased or decreased simply by connecting or disconnecting the frequency converter with its associated IF input /RF output switches.

Application

The ARSC Switch Controller of Frequency Converters is a compact shelf assembly designed to provide logic and control of IF input switch units and RF output switch units. The switch controller will provide "daisy chain" type 1:N (N is 2~12) protect switching for a group of frequency converters. If one on-line frequency converter fails, it will immediately send an alarm by a dedicated line in the ribbon daisy-chain cable to the Switch Controller. At almost same time, the Switch Controller will send switch commands to relevant IF input & RF output switches and configuration information including frequency and attenuation of failed frequency converter to the backup frequency converter before it will be switched to be on-line. Typically, total switch time will be less than 50ms.

Options

- Discrete Interface
- Ethernet port and SNMP Interface
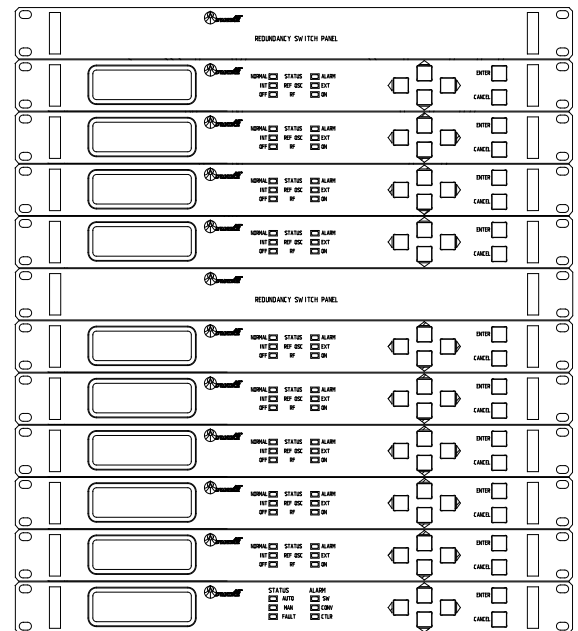
Front View of 1:8 Redundant System shown
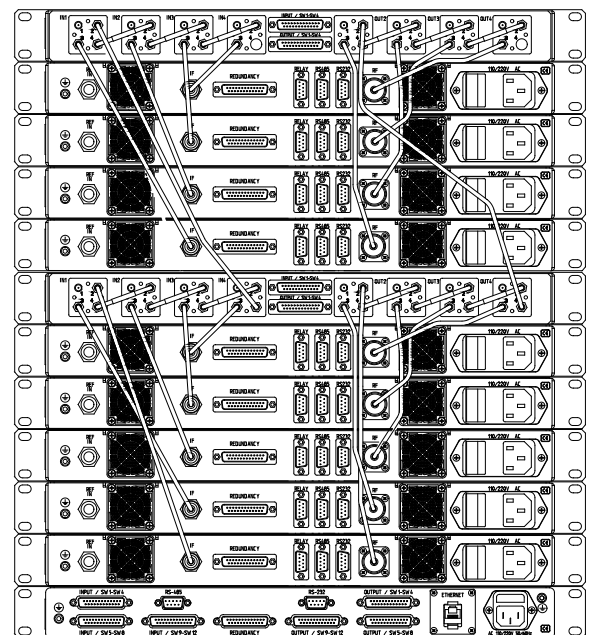
Rear View 1:8 Redundant System shown

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Interfaces

To IF Switches	Three D-sub 25 connectors
To RF Switches	Three D-sub 25 connectors
RS-485 Serial Port	D-sub 9
Redundancy	D-sub 25
RS232	DB9
Ethernet (optional)	RJ45 F
Power	IEC 320 type 10 amp

Environmental

Operational	0°C to +50°C standard
Storage	-55°C to +85°C
Humidity	Non-condensing
Altitude	10,000m AMSL

Mechanical

Dimensions	Width	19" (482.6 mm)
	Height	1U 1.75" (44.45 mm)
	Depth	20" (254 mm)
	Weight	3.6Kg (8 lbs.) max

Power Supply

Voltage	90 – 265 VAC (47 – 63 Hz)
Power	30W (typical)
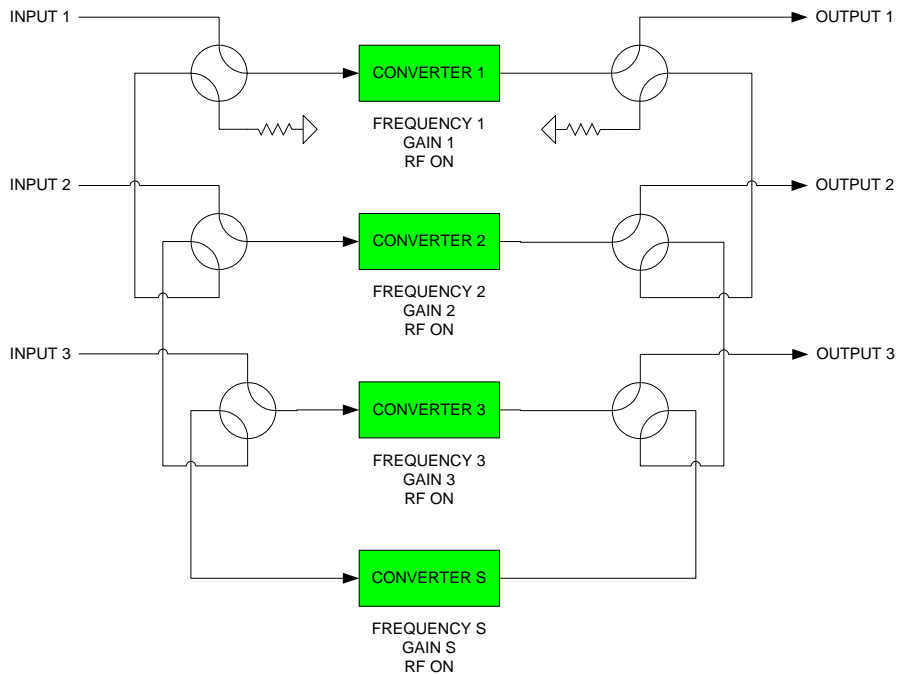
Block Diagram of 1:3 Redundant System with Down-Converters shown

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