

AZ212

1+1 Modulator Redundancy Switch

Azimuth Product Family

AZIMUTH

SERIES

Description

The AZ212 1+1 Modulator Redundancy Switch is a state-of-the-art product designed to provide a 1+1 protection scheme for Broadcast and IP Satellite Modulators.

The AZ212 set of advanced features guarantees a very low switching time increasing significantly the service availability. The AZ212 enables cost effectively the implementation of reliable IP protection schemes requested by modern IP head-end architecture.

The Switch and the Switch Back operations between the main and the spare modulator can be done automatically through alarm contacts, manually through the front panel, a dedicated webGUI, or remotely via a monitoring and control system.

When the automatic mode is activated, the AZ212 monitors continuously the devices. In case of alarm, the AZ212 triggers a redundancy switch between the devices, according to rules defined by the set of parameters governing the switching operation.

The AZ212 is easy to install, configure, control and operate. The web interface presents an intuitive synoptic view of the setup and the SNMP interface allows simple integration into NMS systems. The AZ212 allow defining a large set of switching behaviors through the use of a limited set of parameters.

Key features

- Dual redundant power supply
- Automatic or manual operational mode
- Logical Ethernet switching
- Automatic Switch Back
- Copy the full configuration between devices
- Automatic memorization of configuration
- Reference device
- GUI with synoptic view
- User-configurable switching logic
- Switching of ASI, IP, IF, L-band and RF signals
- Stand alone operation or integrated in a network management system
- Monitoring & control via SNMP
- Management of device configuration

Main advantages

- High reliability
- Increases significantly the service availability
- Cost effective solution
- Easy setup installation
- Easy to use control and operate
- Easy integration into NMS systems
- High compactness

Applications

- DTH
- Broadcast Contribution & Exchange
- DSNG
- TV/Radio Distribution
- IP Trunking
- Telco Backbone
- Government
- Intelligence

Related products

AZ110 Broadcast Satellite Modulator
AZ170 IP Satellite Modulator
AZ178 High Speed IP Satellite Modulator
AZ202 Universal Switching system
AZ7x0 Frequency converters
M6100 Broadcast Satellite Modulator

Related documents

Care Pack Brochure



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Rev. 2/06.2012

Specifications – AZ212(R1.1)



Input Interface switch

ASI

- Connectors 4 x BNC (F) - 75 ohms
- Frequency DC - 270 MHz
- Insertion loss < 2 dB
- Isolation > 50 dB (300 MHz)

Output interface switch

IF (75 ohms, DC - 270 MHz)

- Connectors BNC (F) - 75 ohms
- Frequency DC - 270 MHz
- Insertion loss < 2 dB
- Isolation > 50 dB (300 MHz)

IF (50 ohms, DC – 270 MHz)

- Connectors BNC (F) - 50 ohms
- Frequency DC - 270 MHz
- Insertion loss < 2 dB
- Isolation > 50 dB (300 MHz)

L-band (50 ohms, DC-2.5 GHz)

- Connectors BNC (F) - 50 ohms
- Frequency DC - 2.5 GHz
- Return loss > 18 dB (L band)
- Insertion loss < 0.5 dB
- Isolation > 75 dB (L band)

L-band (50 ohms, DC- 2.15 GHz)

- Connectors SMA (F) - 50 ohms
- Frequency DC – 2.15 GHz
- Return loss > 14 dB
- Insertion loss < 2 dB
- Isolation > 50 dB

L-band (50 ohms, DC – 18 GHz)

- Connectors SMA (F) - 50 ohms
- Frequency DC - 18 GHz
- Return loss > 18 dB (L band) >13 dB (RF)
- Insertion loss < 0.5 dB
- Isolation > 75 dB (L band) >60 dB (RF)

Generic

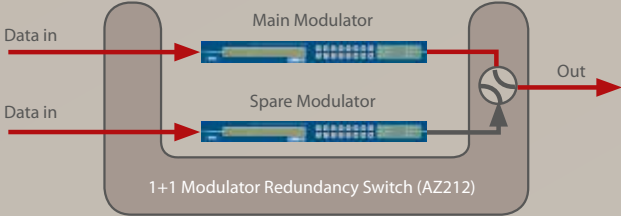
Monitor and control interfaces (via the main unit)

- Web server GUI (HTTP) via web browser
- Diagnostics report, alarm log (HTTP)
- Control of Newtec devices with RMCP over TCP/IP
- SNMP v.2c

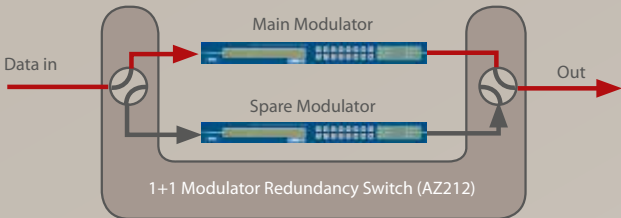
Physical (main and extension units)

- 1RU, width: 19", depth 51 cm, 6 kg
- Dual Power supply: 100 & 180-260 Vac, 105 VA, 47-63 Hz
- Temperature
 - Operational: 0°C to 37°C
 - Storage: -40 to +70°C
- Humidity: 5% to 85% non-condensing
- CE label

Configurations



No input switching – Cross-over output switching



Cross-over input switching – Cross-over output switching

Ordering information

AZ212 1+1 Modulator Redundancy Switch		Order n°
1+1 Modulator Redundancy Switch, SNMP Input interface switch : No input switching Output interface switch: IF, BNC, 75 ohms, DC - 270 MHz		AZ212
Configuration options		
Category Max. 1 option per category		
Input interface switch	No input switching	Default
	ASI / G.703, BNC 75 ohms	DA-01
	GbE Logical Switching	DA-05
Output interface switch	IF, BNC, 75 ohms, DC - 270 MHz	Default
	IF, BNC, 50 ohms, DC - 270 MHz	DB-01
	L-band, BNC, 50 ohms, DC - 2.5 GHz	DB-03
	L-band/RF, SMA, 50 ohms, DC - 18 GHz	DB-04
	L-band, SMA, 50 ohms, DC - 2.15 GHz*	DB-05
Services		
Category		
Assistance	Care Pack 3 Basic	GA-08
	Care Pack 3 Enhanced	GA-09

*Toggle switch

Other configurations with G.703, SDH and HSSI interfaces or optical splitters as well as N+1 protection schemes are available with the Newtec AZ200 or AZ202 products.

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