AZ200
Universal Switching System
Azimuth Product Family

AZIMUTH SERIES

Description

The AZ200 Universal Switching System is a powerful and modular product designed to provide a cost effective N+1 protection scheme for a wide variety of equipment such as modulators, demodulators, modems, converters, encoders and decoders.
The AZ200 meets simple and complex demanding protection requirements by operating and controlling up to 36 internal switching modules.

The very high modularity of the AZ200 guarantees the design optimization for each configuration, reducing the cost and providing a high reliability.

The internal switching modules are inserted in the AZ200 main unit, or, for complex configurations, in up to eigth AZ200 extension units, connected to the main AZ200 unit.

Switching can be done automatically through alarm contacts, manually through the front panel or the dedicated web interface, or remotely via a monitoring and control system.

When the automatic mode is activated, the AZ200 monitors continuously the set of parameters governing the switching operation in order to activate the redundant path while triggering the loading of parameters from memory.

The AZ200 provides a wide range of switching capabilities for almost any input and output signals used in satellite communications. The range of switchable signals include ASI, G.703, SDH, HSSI or IP interfaces, as well as IF, L-band or RF band signals.

Key features

- Dual redundant power supply – Main & Extension unit
- Automatic or manual operational mode
- Operates and controls up to 36 switching modules
- Switchable signals: ASI, IP, G.703, SDH, HSSI, IF, L-band and RF-band
- Stand alone operation or integrated in a network management system
- Suitable for any equipment with alarm contacts

Main advantages

- Increases service availability significantly
- Low cost solution
- Compatible with any equipment that has alarm contacts
- High reliability
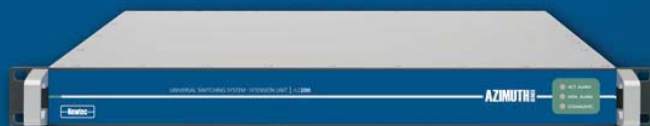- High compactness
- Scalability

Applications

- Broadcast contribution and distribution
- IP trunking / Corporate networks
- Any up or downlink facility

Related products

AZ210 1+1 Modulator Redundancy Switch
AZ270 1+1 Frequency Redundancy Switch
AZ290 1+1 Demodulator Redundancy Switch
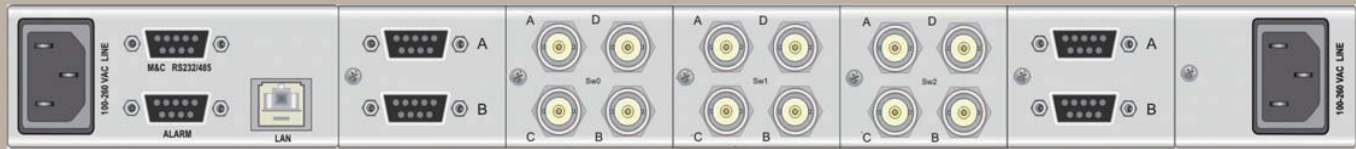
Main unit

Extension unit

Newtec

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Specifications – AZ200(R6)

Main Interface Switches

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

IF (75 ohms, DC - 270 MHz) (optional)
- Connectors   BNC (F) - 75 ohms
- Frequency   DC - 270 MHz
- Insertion loss   < 2 dB
- Isolation   > 50 dB (300 MHz)
- Signals   IF, video, G.703, ASI, SDI

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

L-band (75 ohms, DC – 2.5 GHz)
- Connectors   BNC (F) – 75 ohms
- Frequency   DC – 2.5 GHz
- Return loss   > 18 dB
- Insertion loss   < 0.5 dB
- Isolation   > 75 dB
- Signals   L-band, HD-SDI

L-band (50 ohms, DC – 18 GHz) (optional)
- 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)
- Signals   L-band, RF

Optical, SC, single mode
- Connector   2 x duplex SC receptacles
- Minimum input power   -30dBm
- Minimum output power   -15dBm
- Wavelength   1300 nm
- Compliancy   SONET OC3 & SDH STM1 (S1.1)
- Signal   SDH

Optical, SC, multi mode
- Connector   2 duplex SC receptacles
- Minimum input power   -30dBm
- Minimum output power   -23.5dBm
- Wavelength   1300 nm
- Compliancy   ATM Forum UNI SONET OC-3 Multimode Fiber Physical layer specification
- Signal   SDH

HSSI (optional)
- Connectors   25 pin sub-D (F)
- Switch type   2 inputs/ 2 outputs   2 positions: straight & cross-over
- Frequency   DC - 52 MHz
- Isolation   > 30 dB (balanced)

Other switching modules for audio signals,
wave guides and data signals are available upon request.

Input Interface Splitters

IF splitter
- Connector (in, out)   BNC (F) - 75 ohms
- Frequency   40 – 1000 MHz
- Insertion loss   < 5dB
- Isolation   > 15dB

L-band Splitter
- Connector (in, out)   F (F) – 75 ohms
- Frequency   950 – 2150 MHz
- Insertion loss   < 6dB
- Isolation   > 15dB

Generic

Monitor and control interfaces (via the main unit)
- Web based GUI
- Diagnostics report, alarm log
- RMCP over TCP-IP/UDP and RS232/RS485
- SNMP v2c

Physical (Main and Extension units)

- 1RU, width: 19", depth 51 cm, 6 kg
- Dual Power supply: 100-240 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, UL label

Ordering

The AZ200 will be customized according to your specific needs.
Please provide a description of your equipment setup to our sales
department to receive a configuration proposal.

Please contact your sales representative for detail (sales@newtec.eu)