



GateSwitch

N+1 or N+2 Switchover Unit



GateSwitch is the new, powerful N+1 or N+2 Automatic/Manual Switchover unit from GatesAir. In any main broadcasting station, redundancy is the key to prevention of off-air

situations. GateSwitch has been engineered to bring the maximum reliability for your transmission, by providing redundancy at 4 levels:

- **N+1 or N+2:** Within a single compact 2U or 3U Rack, GateSwitch offers to broadcasters the ability to bring N+1 or N+2 automatic/manual redundancy management, with up to 7+1 or 6+2 transmitters.
- **Input Stage:** Redundancy at the input stage is also offered (in case two separate distribution networks are used), thanks to 2 independent and parallel ASI matrixes or RF switching matrix or RF passive splitting input circuits implemented in GateSwitch.
- **Power Supply:** GateSwitch does not embed any Power Supply Unit (PSU), as it is capable of using one of the PSUs of the transmitters connected to it. Therefore, in a 4+1 configuration, GateSwitch divides the risk of failure by 5!
- **Data Communication:** an IP switch is implemented within GateSwitch for fast and reliable data communication with every transmitter connected. In case the IP link fails, a Serial communication link automatically takes the lead.

You now have 4 good reasons to secure your broadcasting transmission by using GateSwitch!

Main Features

- Compact 2U or 3U 19" Rack chassis
- N+1 or N+2 redundant configuration (with up to 7+1 or 6+2 transmitters)
- Several configurations with different input interfaces:
 - Double ASI input matrix
 - RF switching input matrix
 - RF passive input splitting
 - Analog Video and Audio input matrix
- Embedded RF output matrix
- IP or Serial Link data communication
- SNMP, Web Interface and Touch Screen display

Specifications

Specifications and designs are subject to change without notice

General	
Configuration	N+1, N+2, N+1+M+1 N<8 GateSwitch 2U and 2E N<5 GateSwitch 3U and 4000 Series
RF output matrix	Integrated, PCB relays system for power up to 80W or 350W rms or External coaxial relays
RF impedance	50 Ohm
RF connectors	N (f) up to 80W rms 7/16 (f) up to 350W rms According to Coaxial relays (GateSwitch 2E and 4000)
Input matrix	DVB-ASI / BTS / SMPTE-310M or RF switching matrix or RF passive distribution or Analog Video & Audio (optional)
Input connectors	BNC (f) 75 Ohm, or N (f) 50 Ohm, or SMA (f) 50 Ohm (according to needed configuration)
Slave management	Ethernet 10/100/1000 BaseT RS-485 Dry Contact consensus
IP communication	Integrated 8 or 16 ports IP Switch
IP connectors	RJ-45
AUX connectors	DB-25
Data logger	Integrated with storage of events and alarms
Firmware upgrade	Via USB port or via Web GUI
Controls	
Management	TFT touchscreen display GUI Java interface SNMP GPIO
Series 4000 Specific Data	
Control	Local or Remote, Automatic or Manual
Status overview	Synoptic, on the front panel
Priority management	Fully customizable
Thresholds and retries	Fully customizable
Dummy load	Internal with possibility to connect any unit of the system (GateSwitch 4080 and 4350 only)
Electrical	
No power supply integrated. DC supplied by slaves through AUX connectors.	
Mechanical	
Chassis	2U rack 19" (GateSwitch 2E, 2U, 4000 Series) 3U rack 19" (GateSwitch 3U)
Width	483 mm
Depth	350 mm
Height	88.1 mm (GateSwitch 2E, 2U, 4000 Series) 132.5 mm (GateSwitch 3U)
Weight	6 Kg
Environmental	
Operating temperature range	-5°C ÷ 45°C
Max. relative humidity	90% non condensing