

DCH-3000AL is a digital TV redundant switch based on DVB-ASI standard. It has 6-way 1+1 ASI switches in 1RU chassis. the ASI signal will be automatically routed to backup port if technical failure of the primary port happens. The switching condition is supervised by a built-in comprehensive TS monitor which can continuously analyze the quality of each ASI input stream. Furthermore, it can detect up to 8 PIDs as the switching conditions for each way. By using the RF delay, it can ensure rapid transition from primary port to buck-up port with high performance and stability. It also can be controlled and supervised by SNMP and HTTP Web. DCH-3000AL is an ideal product for broadcast system redundancy.

Switch to the back-up transport stream source automatically when problems occur



Up to 6 independent switch modules in 1RU 19" chassis



DC 12V backup power supply



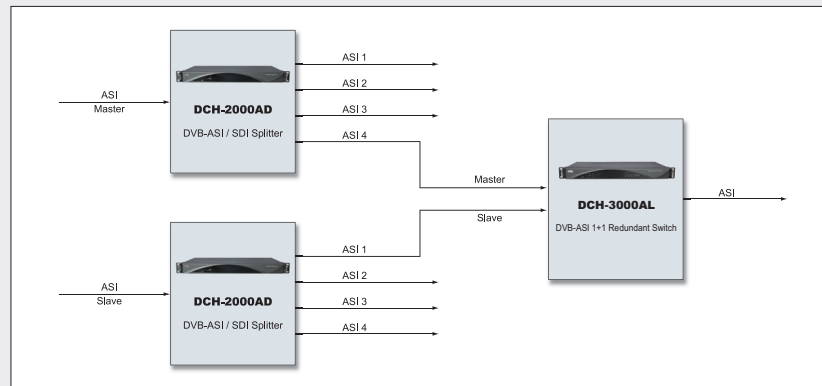
DCH-3000AL

DVB-ASI 1+1 Redundant Switch



Main Feature

- Compatible with DVB-ASI (EN50083-9) standard
- Up to 6 independent 1+1 switching modules in 1RU 19"chassis
- Built-in real time transport stream monitoring
- Input and Output bit-rate up to 160 Mb/s on each switch module
- Automatic or manual switch mode
- TS sync loss and PIDs loss as switching condition
- Mechanical Bypass Relay to output in the event of power failure
- DC 12V backup power supply
- Remote control, supervision and by SNMP and HTTP Web



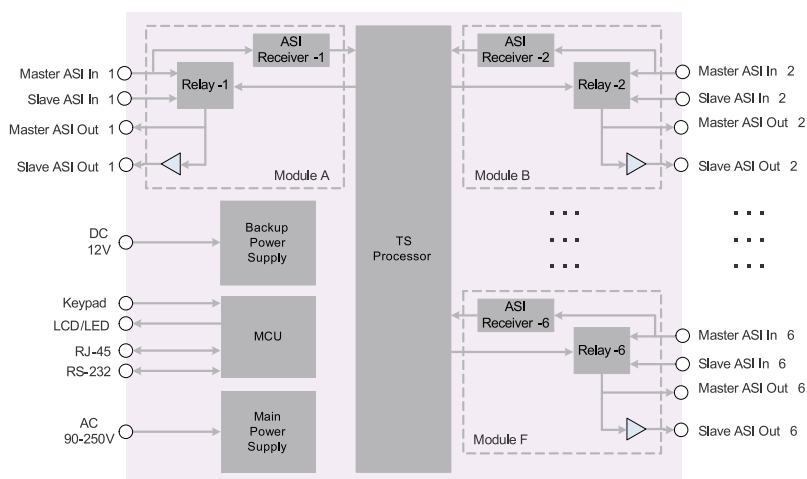
Specification

ASI Input	
Input Interface	12 (6 primary, 6 secondary)
Connector Type	BNC, 75Ω
TS Bit Rate	< 160Mb/s
Packet Format	188 /204 byte packets, without RS code
ASI Switching	
Switching Mode	Primary/Secondary, Auto/Manual
Switching Condition	TS Sync Loss and up to 8 PID losses
Switching Time	< 300 ms
Power Failure Switching	Mechanical by pass relay
ASI Output	
Output Interface	12 (6×2 duplicated outputs)
Connector Type	BNC, 75Ω
TS Bit Rate	< 160Mb/s
Packet Format	188/ 204 byte packets, without RS code

Control & Monitoring	
Connector Type	RS232 (DB-9), for PC configuration and software upgrade
Local Control	LCD display and 6-key keypad
LCD	2×10 characters LCD display
LED	7 (one for Power indicator, the others for switch status)
Physical	
Dimension	44mm×483mm×240mm
Weight	3.0Kg Net, 3.7Kg Gross
Power Supply	AC 90~260V, 50Hz/60Hz
Power Consumption	25W (MAX)
Operating Temperature	0~45°C
Storage Temperature	-10~60°C
Operating Humidity	10~90%, non-condensed

Block Diagram

DCH-3000AL Functional Block Diagram



Back panel Interface

