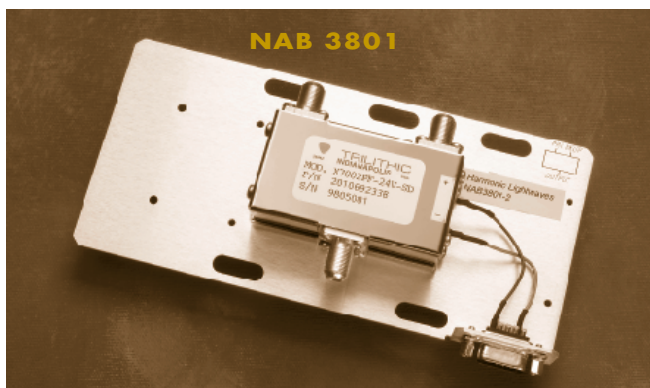
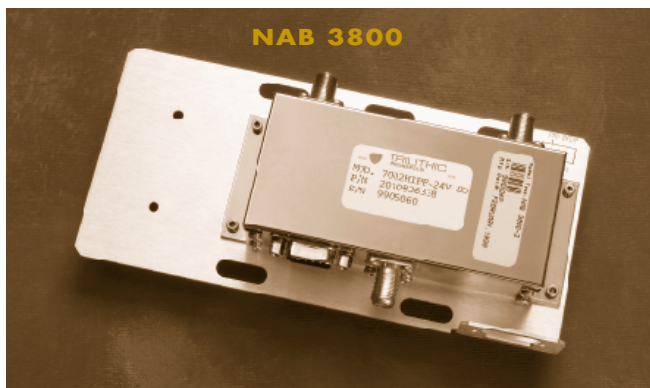


A/B Switches



Product Description

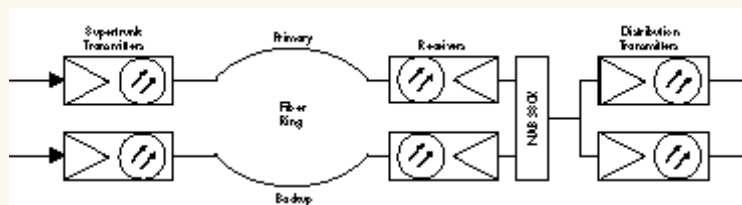
All of Harmonic's indoor receivers support redundant networks through the NAB 3800 series switches. Both the NAB 3800 and the NAB 3801 can be used with the HLR 3700RM, HLR 3800RM, and HRM 3810 receivers. The switch changes the route from primary to backup whenever the primary receiver is in alarm. The status of the switch may be monitored via the status of the primary receiver.

The bandwidth of both switches extends to 870 MHz. The NAB 3800 has the high isolation required for analog systems. The NAB 3801 has high isolation up to 550 MHz and sufficient isolation for digital information above this level. The NAB 3800 and NAB 3801 can also be used with Harmonic's Link Extender (models HLE 3700 and HLE 3800).

Applications

- Redundant links using the HRM 3810, HLR 3X00RM and the HLE 3X00

Standard Configuration



Electrical

Operating band: 5-870 MHz
Insertion loss (either input to output):
 NAB 3800: 2 dB
 NAB 3801: 1 dB
Frequency response (either input to output): ± 0.75 dB
Isolation (unused input to output):
 NAB 3800 (5-870 MHz): 70 dB
 NAB 3801 (5-550 MHz): 70 dB
 NAB 3801 (550-870 MHz): 60 dB
Input impedance: 75
Output impedance: 75
RF connectors: F-type (both inputs and output)
Control connector: DB9 (cable to interface with HRM 3810,
 HLR 3X00RM, and HLE 3X00 supplied)
Input return loss: >16 dB (both inputs over passband with switch
 in either state and with connected ports
 terminated)
Output return loss: >16 dB (over passband with switch in either
 state and with connected ports terminated)
Maximum group delay: 5 ns (both inputs over passband with
 switch in either state)
Maximum switching time: 15 ms
Powering: From connector on primary HRM 3810. External
 24 VDC required for use with HLR 3X00RM
Logic: Switch will de-energize (connect backup input to output)
 when alarm input is true
NETWatch™/EMS interface: Via primary receiver

Physical

Dimensions:
 NAB 3800: 3.50" W x 5.25" L x 1.14" H
 (8.89 cm W x 13.3 cm L x 2.90 cm H)
 NAB 3801: 3.66" W x 5.25" L x 1.04" H
 (9.30 cm W x 13.3 cm L x 2.64 cm H)
Weight:
 NAB 3800: 3.5 oz/99 g
 NAB 3801: 2.5 oz/71 g
Mounting: Side or back of rack

Environmental

Operating temperature range: -20° to 40° C (-4° to 104° F)
Relative humidity: Maximum 85% non-condensing