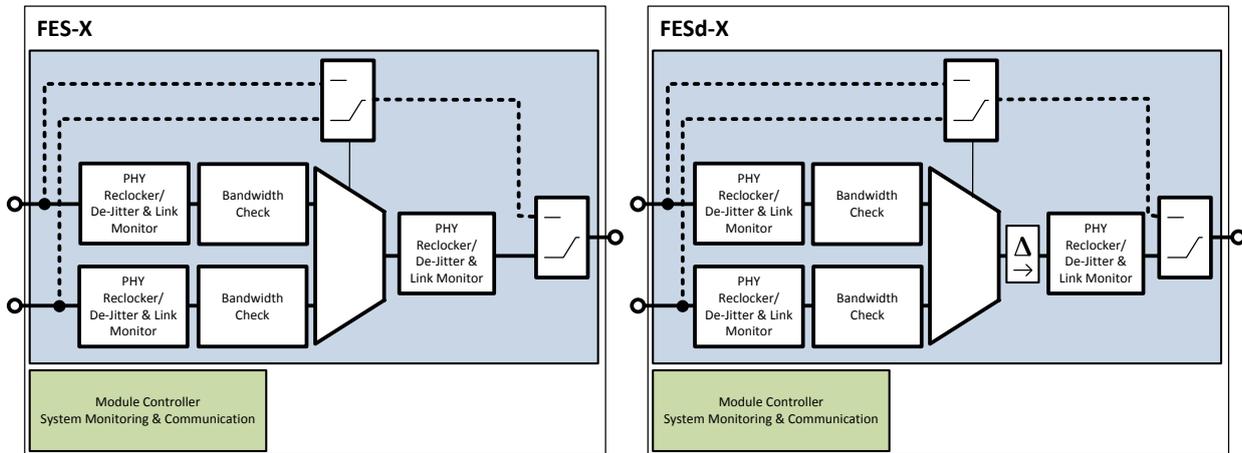


FES-X and FESd-X 100Base-T Ethernet Backup Switch



The FES-X is a backup switch for 100Base-TX links. It switches automatically and/or manually controlled by the system controller (SNMP/web). For autoswitching it uses a Link up/down monitor and a software selectable activity monitoring is employed.

The user can read the input transmit bitrate per input and set the activity threshold accordingly with 100kBits/s granularity.

The FES-X has no MAC addresses on its ports it is completely transparent for the connected devices. The last set route is hold through **powerfail bypass relays. So there is no single point of failure!**

The ports of the FES-X are using autoneg and auto crossover. Please take care of correct cabling if none of the connected devices support auto crossover. We advice to plug the cables while the FES-X is powered off.

The FES-X is a Module for the HSM-X system. All status and settings are accessible through the webinterface of the SMI-X controller module. Alarms will be send over SNMP from the SMI-X.

The FESd-X offers a user adjustable delay in output transmit direction of up to 1.34 seconds. This delay can be used for compensating network latency or adding a launch offset for one transmit path.

FES-X is a product of Headroom Broadcast. It belongs to the group of monitoring and switching devices for video, audio and telecom signals, covering single purpose stand-alone devices as well as multi format modular systems for signal management.

Technical data

Inputs	RJ45 100Base-T, auto-neg (half/full duplex), auto xover Green LED for Link, Orange LED for activity per connector
Output	RJ45 100Base-T, auto-neg (half/full duplex), auto xover Green LED for Link, Orange LED for activity
Detector criteria	Link established (up)
Software selectable	Activity monitoring: bitrate lower than user selectable threshold (100kBit/s granularity)
Indicators	LED yellow – power supply ok LED green/red - signal applied o.k. (A and B) – red: low activity LED green – switch position A or B LED green – conf. LED red - error LED green – test (free for future use)
Power consumption	typ. 4 watts (@12V)

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