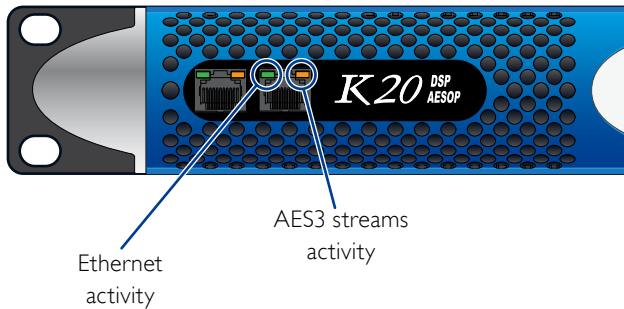# LED chart of KAESOP RJ45 ports

How to interpret blinking LEDs on KAESOP RJ45 ports

KAESOP is a messaging protocol providing Ethernet data connection and up to two AES3 streams via a single standard Ethernet CAT5 cable.

The Powersoft amplifiers which implement the KAESOP communication protocol, such as the K Series and Duecanali Series, are equiped with RJ45 Ethernet ports with two status LEDs that indicate the Ethernet (green LED) and AES3 (amber LED) activity.

AES3 streams activity

Ethernet activity

Ring, daisy chain and a variety of network topologies are possible using the dual port design implemented in all K Series amplifiers. The two frontal RJ45 ports in K Series KAESOP amplifiers can be set in two operating modes:

▶ In the REPEATER mode, any AES3 stream received on port 1 will be repeated on port 2 and vice-versa (i.e. if the AES3 stream is received on port 2 it will be repeated on port 1). This applies to both AES stream A and AES stream B independently.

▶ When the amplifier is set in FORWARDER mode, the AES3 signal coming into the amplifier from the rear panel XLR connector is forwarded to both of the master RJ-45 ports. There are three ways the AES can be forwarded:

▷ Forward to AES3-A: the amplifier's rear panel AES input via the XLR connector is routed to the AES stream A on both master ports 1 and 2. If there is an AES3-B stream incoming from either master ports 1 or 2, this will be repeated on the other master port.

▷ Forward to AES3-B: the amplifier behaves just as in the "forward to AES3-A" mode but with repsect to the AES3-B stream.

▷ Forward to both: the amplifier's rear panel AES input via the XLR connector is routed to both AES3 stream A and AES3 stream B on both main ports 1 and 2. Repeater functionality is disabled.

For further information on KAESOP configuration please refer to the K Series, Duecanali Series and Armonía Pro Audio Suite™ users guides.

The following table shows the blinking sequences of the amber LED on KAESOP RJ45 ports about the signal routing configuration of the AES3-A and AES3-B streams.

AES3		Time							
A stream	B stream	125 ms	125 ms	125 ms	125 ms	125 ms	125 ms	125 ms	125 ms
NO	NO								
REPEAT	NO	—	—			—	—		
NO	REPEAT	—		—					
REPEAT	REPEAT	—	—	—	—	—	—	—	—
F.WARD	NO	~	~			~	~		
F.WARD	REPEAT	~	~	~	~	—		—	
NO	F.WARD	~		~					
REPEAT	F.WARD	~		~		—	—		
F.WARD	F.WARD	~	~	~	~	~	~	~	~

Legend:

NO	No signal
REPEAT	Signal present - Repeater mode
F.WARD	Signal present - Forwarder mode

—	Solid light
~	Flickering light
	light off

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