

SLink Protocols

The intelligent SLink port automatically switches mode depending on what it is connected to, and can run one of 3 different protocols at one time. It carries out Sample Rate Conversion when required to ensure the SQ **always** runs at 96kHz internally for all processing and mixing.

Protocol	Sample Rate	Total Inputs	Total Outputs
dSnake (+ME)	48kHz	40	20 (+40 ME)
DX	96kHz	32	32
gigaACE	96kHz	128	128



SLink Option Card

The SLink Option card provides an additional SLink port to any SQ console.

It has exactly the same functionality as the built-in port, but operates independently, allowing for two different protocols to be run on the same system.

With an SLink card fitted, all possible SLink connections listed in this document can therefore be run on either port, and any combination of two can be used simultaneously with one console.

DX Hub

The DX Hub features 1x gigaACE port for connection to SLink, along with 4x DX ports for connection to DX expanders. The console shows 128 inputs and 128 outputs, which are mapped as follows:

- DX Port 1 (32x32) = gigaACE inputs and outputs 1-32
- DX Port 2 (32x32) = gigaACE inputs and outputs 33-64
- DX Port 3 (32x32) = gigaACE inputs and outputs 65-96
- DX Port 4 (32x32) = gigaACE inputs and outputs 97-128

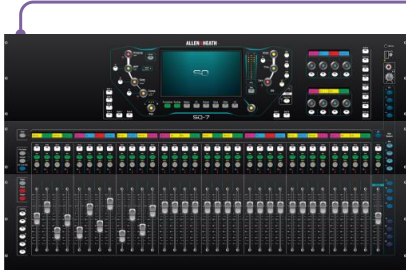


Notes:

- The SQ features 48 input processing channels. Adding connections via SLink provides access to more inputs and outputs, but does not increase the number of processing channels available.
- Multiple protocols cannot be used at the same time on a single port.
- dSnake and DX protocols support a maximum of two remote audio units per connection.
 - The AR2412 and AB168 have dedicated expander ports.
 - It is not possible to connect two AR2412's to one port (as the maximum number of dSnake inputs is 40).
 - The DX168 and DX164W should be set to 'Cascade' mode with the second unit connected to port B.
 - The second DX unit in cascade mode uses inputs and outputs 17-32. For example, with two DX168s connected directly, outputs 9-16 are unavailable and the outputs for the second unit are 17-24.
- The ME personal monitoring system can either be connected directly to the SLink port, or to 'Expander' or 'Monitor' ports on AR2412 or AB168 units. It is not possible to connect a ME system to a DX unit or the DX Hub.
- Remote audio unit firmware is automatically checked and matched to the console upon connection.
- The maximum distance between each connection is 100m. This means the distance from the SLink port to the first unit can be 100m, and the distance from that unit to a second can also be 100m.
- Cat5e (or higher) STP cable should be used throughout.

dSnake (+ME)

**SQ
+AR84**



SQ-5 / SQ-6 / SQ-7



— dSnake Cat5e or higher

+8
Mic/Line Inputs
+4
Line Outputs

Protocol
dSnake

Sample Rate
48kHz

**SQ
+AB168**



SQ-5 / SQ-6 / SQ-7



ME PERSONAL MIXING SYSTEM

— dSnake Cat5e or higher
- - - ME Cat5e or higher

+16
Mic/Line Inputs
+8
Line Outputs
+40 Monitor

Protocol
dSnake+ME

Sample Rate
48kHz

**SQ
+AR2412**



SQ-5 / SQ-6 / SQ-7



ME PERSONAL MIXING SYSTEM

— dSnake Cat5e or higher
- - - ME Cat5e or higher

+24
Mic/Line Inputs
+12
Line Outputs
+40 Monitor

Protocol
dSnake+ME

Sample Rate
48kHz

**SQ
+AB168
+AR84**



SQ-5 / SQ-6 / SQ-7



— dSnake Cat5e or higher

+24
Mic/Line Inputs
+12
Line Outputs

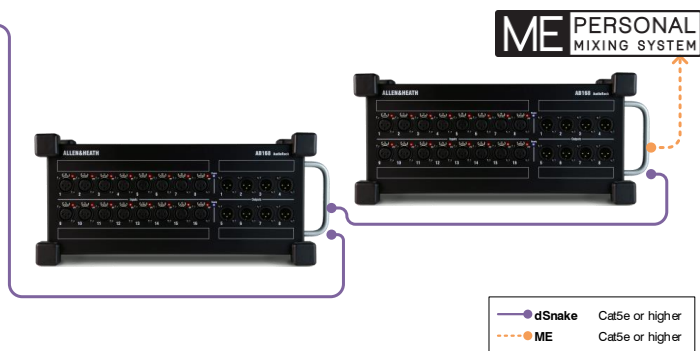
Protocol
dSnake+ME

Sample Rate
48kHz

SQ
+AB168
+AB168



SQ-5 / SQ-6 / SQ-7



ME PERSONAL MIXING SYSTEM

+32
 Mic/Line Inputs
+16
 Line Outputs
 +40 Monitor

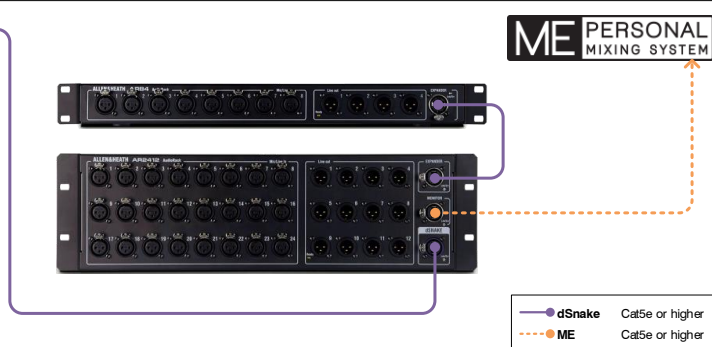
Protocol
 dSnake + ME

Sample Rate
 48kHz

SQ
+AR2412
+AR84



SQ-5 / SQ-6 / SQ-7



ME PERSONAL MIXING SYSTEM

+32
 Mic/Line Inputs
+16
 Line Outputs
 +40 Monitor

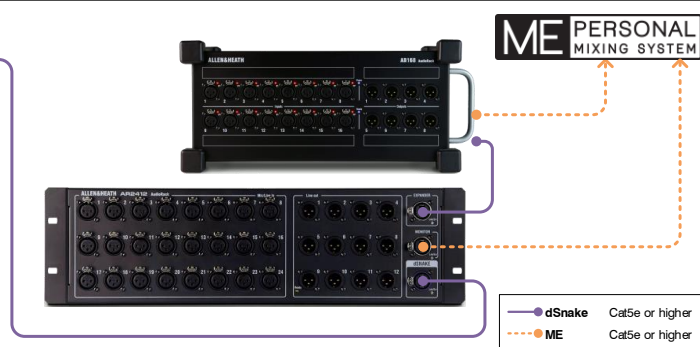
Protocol
 dSnake + ME

Sample Rate
 48kHz

SQ
+AR2412
+AB168



SQ-5 / SQ-6 / SQ-7



ME PERSONAL MIXING SYSTEM

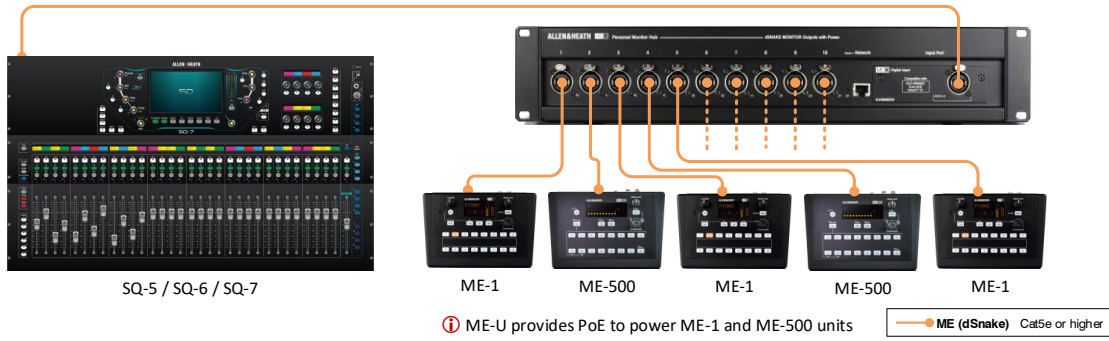
+40
 Mic/Line Inputs
+20
 Line Outputs
 +40 Monitor

Protocol
 dSnake + ME

Sample Rate
 48kHz

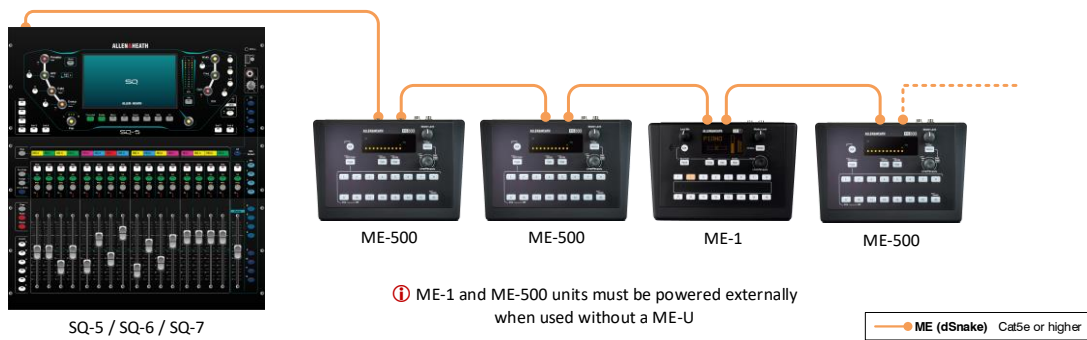
dSnake (ME only)

**SQ
+ ME**



+ 40
Monitor
Protocol
ME (dSnake)
Sample Rate
48kHz

**SQ
+ ME**



+ 40
Monitor
Protocol
ME (dSnake)
Sample Rate
48kHz

**SQ
+DX168**

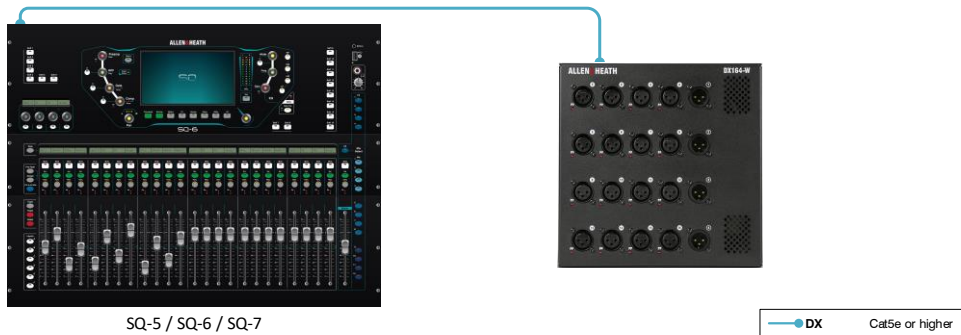


+16
Mic/Line Inputs
+8
Line Outputs

Protocol
DX

Sample Rate
96kHz

**SQ
+DX164W**



+16
Mic/Line Inputs
+4
Line Outputs

Protocol
DX

Sample Rate
96kHz

**SQ
+DX168
+DX168**



+32
Mic/Line Inputs
+16
Line Outputs

Protocol
DX

Sample Rate
96kHz

**SQ
+DX168
+DX164W**



+32
Mic/Line Inputs
+12
Line Outputs

Protocol
DX

Sample Rate
96kHz

SQ
+DX Hub
+3 x DX168



SQ-5 / SQ-6 / SQ-7

ⓘ Up to 2 DX168s or DX164Ws can be connected in any order to each DX port using cascade mode

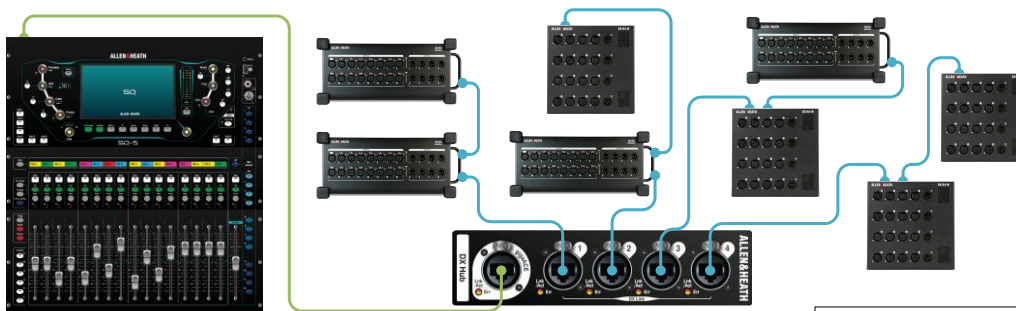
— gigaACE Cat5e or higher
 — DX Cat5e or higher

+48
 Mic/Line Inputs
+24
 Line Outputs

Protocol
 gigaACE+DX

Sample Rate
 96kHz

SQ
+DX Hub
+4 x DX168
+4 x DX164W



SQ-5 / SQ-6 / SQ-7

ⓘ Up to 2 DX168s or DX164Ws can be connected in any order to each DX port using cascade mode

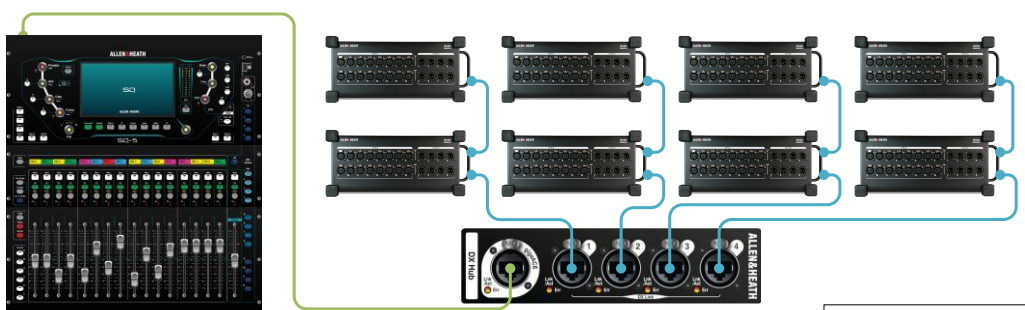
— gigaACE Cat5e or higher
 — DX Cat5e or higher

+128
 Mic/Line Inputs
+48
 Line Outputs

Protocol
 gigaACE+DX

Sample Rate
 96kHz

SQ
+DX Hub
+8 x DX168



SQ-5 / SQ-6 / SQ-7

ⓘ Up to 2 DX168s or DX164Ws can be connected in any order to each DX port using cascade mode

— gigaACE Cat5e or higher
 — DX Cat5e or higher

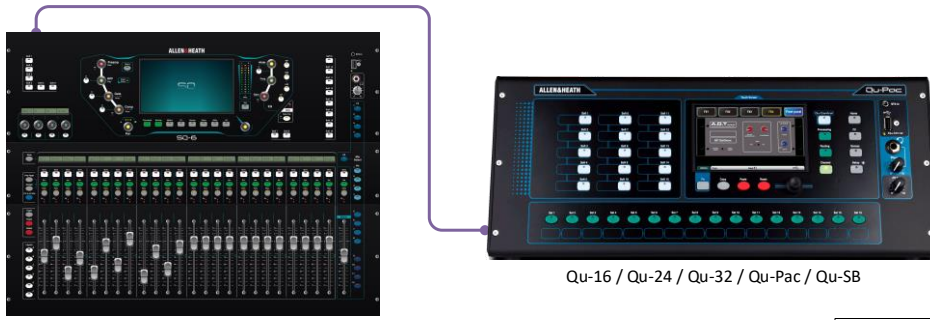
+128
 Mic/Line Inputs
+64
 Line Outputs

Protocol
 gigaACE+DX

Sample Rate
 96kHz

System to System

**SQ
+Qu**



SQ-5 / SQ-6 / SQ-7

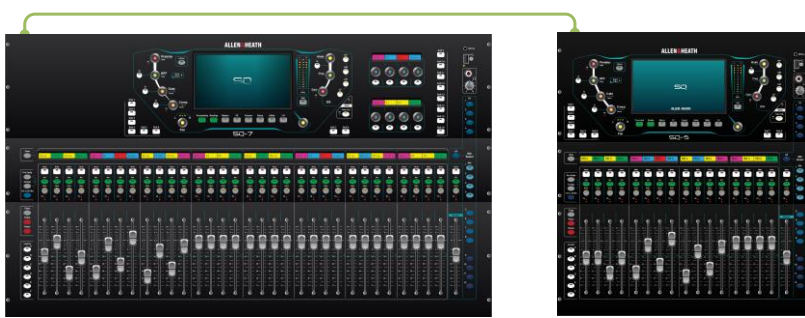
dSnake Cat5e or higher

+60
Input Sources
+40
Output Destinations

Protocol
dSnake

Sample Rate
48kHz

**SQ
+SQ**



SQ-5 / SQ-6 / SQ-7

SQ-5 / SQ-6 / SQ-7

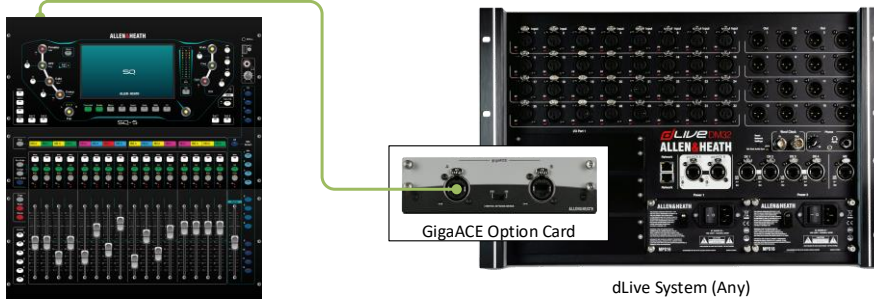
gigaACE Cat5e or higher

+128
Input Sources
+128
Output Destinations

Protocol
gigaACE

Sample Rate
96kHz

**SQ
+dLive**



SQ-5 / SQ-6 / SQ-7

dLive System (Any)

gigaACE Cat5e or higher

+128
Input Sources
+128
Output Destinations

Protocol
gigaACE

Sample Rate
96kHz

Total Assignable Inputs and Outputs per console (excluding USB and I/O Port)

Remote Unit/s	Protocol	SLink Inputs	SLink Outputs	SQ-5		SQ-6		SQ-7	
				16 Mic/Line In + Talkback + 6 Line In 12 XLR + 2 TRS Line Out + AES		24 Mic/Line In + Talkback + 6 Line In 14 XLR + 2 TRS Line Out + AES		32 Mic/Line In + Talkback + 6 Line In 16 XLR + 2 TRS Line Out + AES	
				Total Inputs	Total Outputs	Total Inputs	Total Outputs	Total Inputs	Total Outputs
AR84	dSnake	8	4	31	20	39	22	47	24
AB168		16	8	39	24	47	26	55	28
AR2412		24	12	47	28	55	30	63	32
AB168 + AR84		24	12	47	28	55	30	63	32
AB168 + AB168		32	16	55	32	63	34	71	36
AR2412 + AR84		32	16	55	32	63	34	71	36
AR2412 + AB168		40	20	63	36	71	38	79	40
DX164W	DX	16	4	39	20	47	22	55	24
DX164W + DX164W		32	8	55	24	63	26	71	28
DX168		16	8	39	24	47	26	55	28
DX168 + DX168		32	16	55	32	63	34	71	36
DX Hub + 3 DX168	gigaACE + DX	48	24	71	40	79	42	87	44
DX Hub + 8 DX168		128	64	151	80	159	82	167	84
DX Hub + 4 DX168 + 4 DX164		128	48	151	64	159	66	167	68
ME system (any)	dSnake	0	40	23	56	31	58	39	60
Qu mixer (any)	dSnake	60	40	83	56	91	58	99	60
SQ mixer (any)	gigaACE	128	128	151	144	159	146	167	148
dLive (any, via gigaACE option card)	gigaACE	128	128	151	144	159	146	167	148