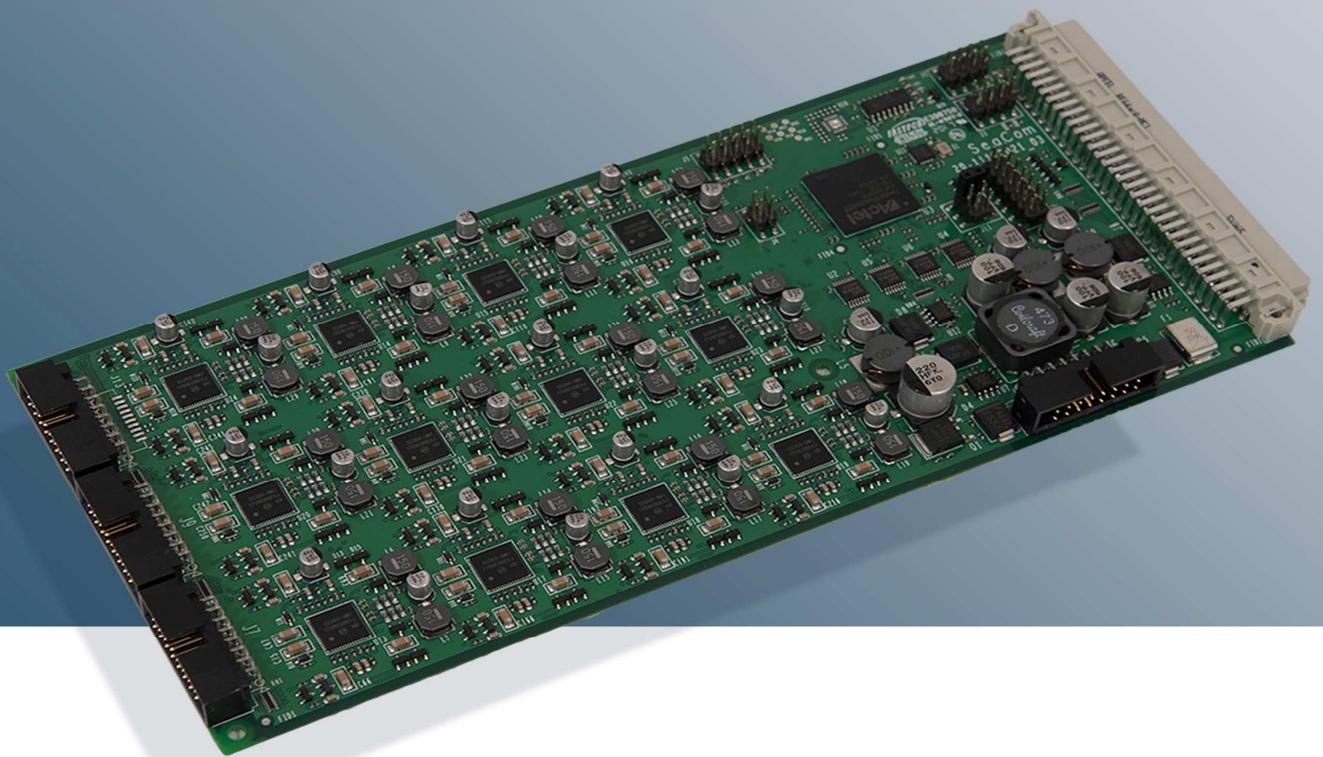


AEXT16

Analogue extension card



8,16 or 24 line extension card used for all SeaCom exchange systems.



Description and use

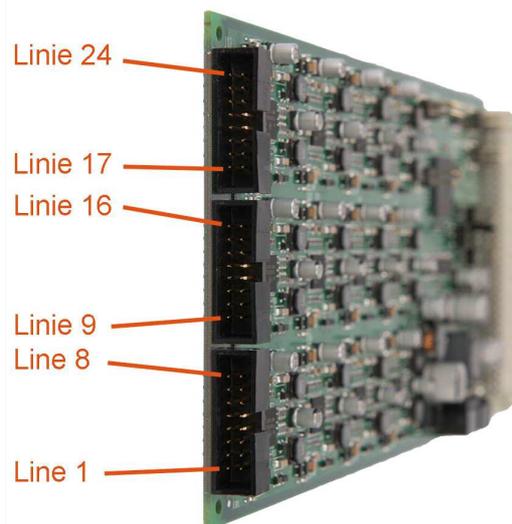
The AEXT16 is an analogue extension card with 8, 16 or 24 lines. It is used to form the ports where telephones and intercom stations are connected to.

Technical data

- 24 channels
- 48V DC line feed
- 20 mA loop current
- 50V 50Hz ringing signal
- DTMF tone dialing
- Loop disconnect dial (rotary dial)
- FSK caller ID signaling
- 16 kHz out of voice band signaling
- Gong generator for PA calls
- Alarm tone generator

Line connectors

Telephones are connected to the 1,2 or 3 lines connectors. On the layout these are J7, J9 and J12. J7 is the only connector in use on an 8 line card. The below picture shows the lines connectors.



Indicators

On the backside of the AEXT16, just below the 3 line connectors, the line activity indicators are found. These are yellow ILEDs that will show activity on the line. Indicators are arranged so that they are aligned with the two pins of the connector which they shows the activity off. This to make debugging an installation easy.

The following code for the indicator:

- | | |
|--------------|----------------------|
| - off | Line is idle |
| - flash 1 Hz | Wait for B answer |
| - flash 2 Hz | Dialing |
| - flash 4 Hz | Extension is ringing |
| - on | In conversation |

Jumpers

Jumpers are only used when the AEXT16 shall operate as the master in a system.

One, and only one, board of a SeaCom system must behave like a master board. The master board is responsible for generating the necessary clock signals on the backplane, and as being the center of all inter board communication, including the communication the CP/LSP and PSU2.

A master board must be located in slot 0, and it must have J11 jumpers and J3 jumpers set correctly

On the board there is a set of jumper fields used to define the operation of the board.

J11 Master functions:

1,2 (red dot)	Master
3,4	C2,C4
4,5	PSU2

1,2 must be set for the board to be master. Setting this jumper powers on the board as the first board in the system upon power on.

3,4 must be set if an FIO2 board is to be used. This jumper enables the full C2, C4 clock system used by the FIO2.

4,5 must be set if the system is powered by a PSU2 board. This will be the case for SeaCom 1000, 2100 and 19" systems, but for the SeaCom 3000 this jumper should be left off.

J3 CP/LSP communication:

1,2 (red dot) 3,4	RS232 level Used with CP2
5,6 7,8	0-5V level Used with LSP

These jumpers are always used in sets of two.
Either 1,2 and 3,4 are set or 5,6 and 7,8 are set.

Setting 1,2 and 3,4 enables master communication between the AEXT16 master card and the LSP using 0/3V3 logic level.

Setting 5,6 and 7,8 enables master communication between the AEXT16 master card and the CP2 using RS232 logic level.

Order information

The AEXT16 comes in 3 variants: 8,16 and 24 lines. The below stock numbers applies:

8 lines 10-110-2020

16 lines 10-110-1021

24 lines 10-110-1022

Layout

