

M E G A F R A M E S e r i e s

Hardware Documentation

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Author :
Dr. Gerhard H. Peise

MEGAFRAME link cable

Technical Documentation

Version 1.0

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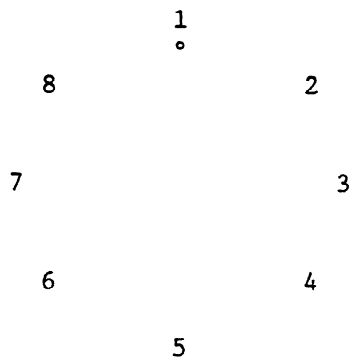
MEGAFRAME link - cable, external

cable: LIFYCY 4 x 2 x 0,2/22, lightgrey, manufacturer Metrofunk, Berlin

connector: Lemos FHG 2B308CNAD072 gr - corner-connector
FGG 2B308CNAD072 gr - straight-connector

bend-protection : KN 2 gr 070

Looking at the back-side of the connector the pin-counting is in counter-clockwise direction, pin 1 marked by a white circle.



cable lead-colours:

connector 1: pin 1 yellow
2 green
3 grey
4 pink
5 red
6 blue
7 brown
8 white

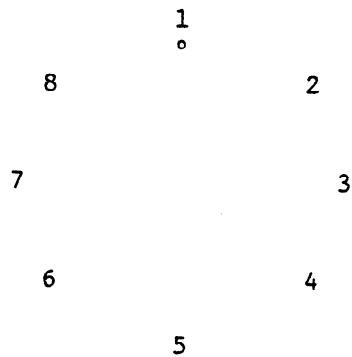
connector 2: pin 1 white
2 brown
3 blue
4 red
5 pink
6 grey
7 green
8 yellow

MEGAFRAME 8-pin link-connector (female), external

type: Lemos EGG 2B308CNL

pinning:

Looking at the back-side of the connector the pin-counting is in clockwise direction, pin 1 marked by a white circle.



pinout:

1	Reset out	+
2	Reset out	-
3	Link out	+
4	Link out	-
5	Link in	-
6	Link in	+
7	Reset in	-
8	Reset in	+

MEGAFRAME internal link-connector

polarized 10-pin header

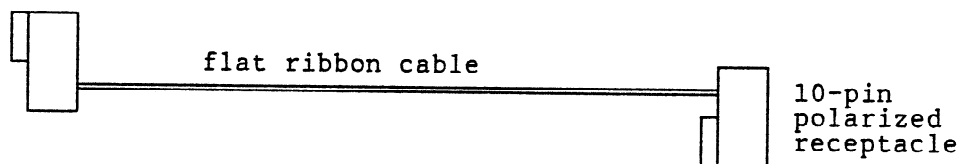
view on pins

Reset out +	....	10	o	o	9	....	Reset out -
Link out +	....	8	o	o	7	....	Link out -
GND	....	6	o	o	5	....	GND
Link in -	....	4	o	o	3	....	Link in +
Reset in -	....	2	o	o	1	....	Reset in +

MEGAFRAME internal link-connector:

10-wire flat ribbon cable

2 polarized receptacles with strain relief, inverse connected !

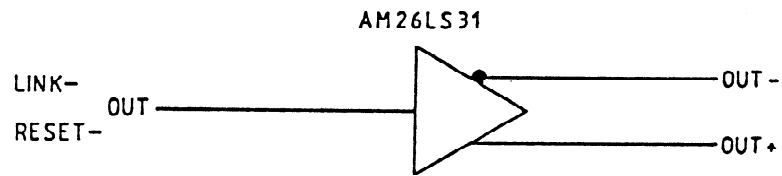


side view MEGAFRAME link cable

This results in the connection of following cables:

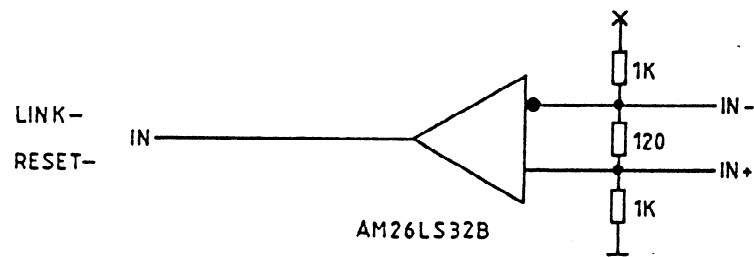
1	--	10
2	--	9
3	--	8
4	--	7
5	--	6

In this way the link inputs/outputs are connected with correct polarity.



ON BOARD

EXTERN



LINK-/RESET BUFFER

RS-422 Interface

Interconnection of INMOS Transputerboards and MEGAFRAME System Modules
(provided that INMOS adaption is possible; refer to the specific module
documentation).

Connectors

Label	:	Function	

PCLN *	:	INMOS (B004); PCLinkOut,PCLinkIn,NotLink	<-> MEGAFRAME
LNK **	:	INMOS ; LinkIn,LinkOut	<-> MEGAFRAME

PCSS *	:	INMOS (B004); PCReset,NotSystem	-> MEGAFRAME
*** or INMOS	:	; SubsystemNotReset	-> MEGAFRAME
UP **	:	INMOS ; UpNotReset	<- MEGAFRAME
DN ****:	:	INMOS ; DownNotReset	-> MEGAFRAME

Use only connectors marked by the same number of '*' at the same time!

Examples of using the various connectors:

Case 1:

Using IMSB004 Link Adapter section for loading MEGAFRAME System Modules

Insert connector PCLN to IMSB004 edge connector pin 1b...6b
" " PCSS " " 22b...27b

Case 2:

Using IMSB004 as host TP for loading MEGAFRAME System Modules
(default link 2):

Insert connector LNK to IMSB004 edge connector position 'Link 2'.
" " PCSS " " 'Subsystem'.
Insert B004 Link jumper and Reset jumper as described in the manual.

Case 3:

Using IMSB004 TP section to be loaded by MEGAFRAME System Modules;
for example using B004 link 0 :

Insert connector LNK to IMSB004 edge connector position 'Link 0'.
" " UP " " 'Up'.

(B004 link 1 ,2 or 3 may be possible as well)

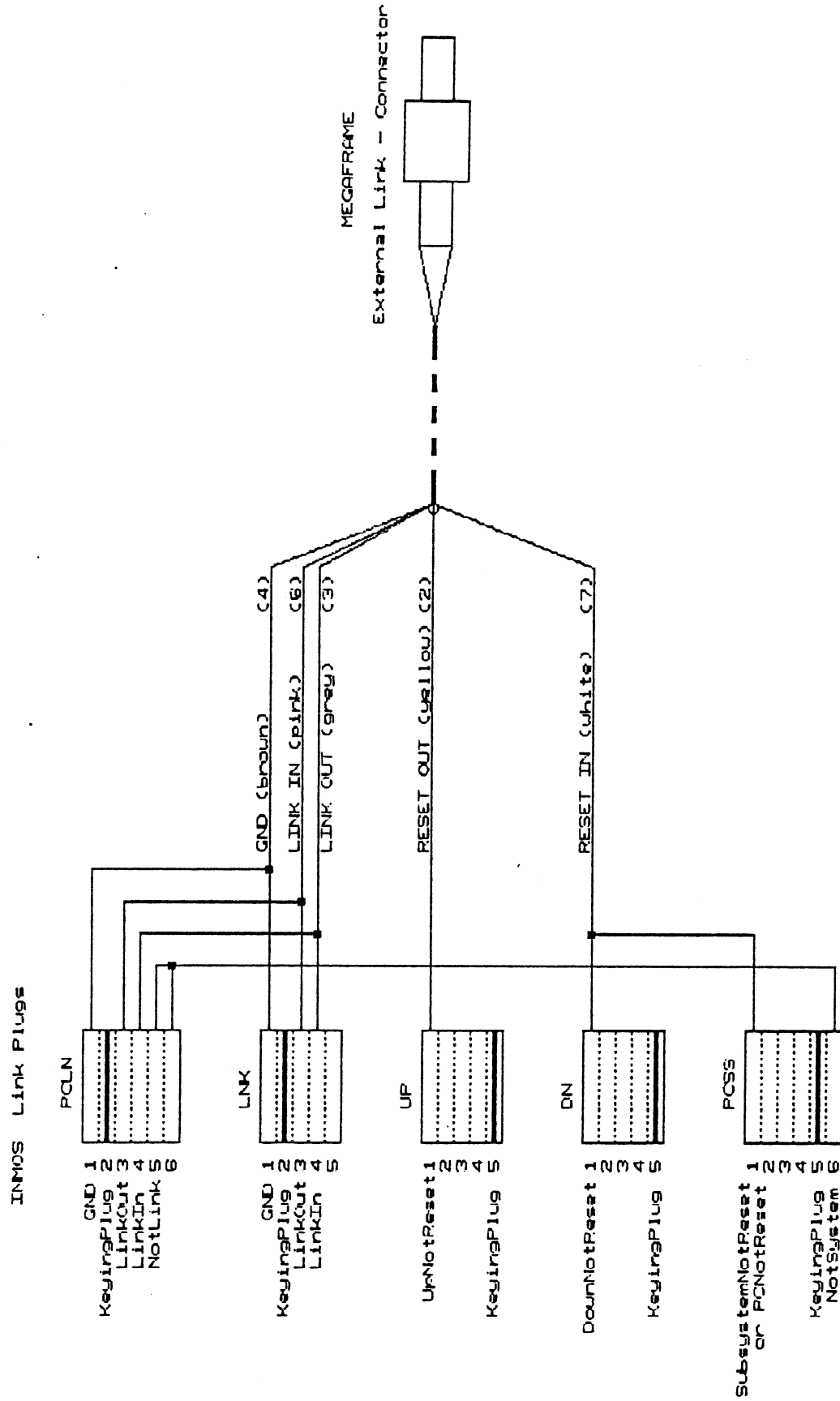
Case 4:

Using IMSB004 TP and MEGAFRAME System Modules at the same level; in
this case the MEGAFRAME System Module is to be integrated as the last
member of the level since the INMOS reset, analyse daisy chain is
not supported by MEGAFRAME System Modules;
for example using B004 link 0 :

Insert connector LNK to IMSB004 edge connector position 'Link 0'.
" " DN " " 'Down'.

(B004 link 1 ,2 or 3 may be possible as well)

The cases 3 and 4 described above may also occur in correlation with
other INMOS Transputer Boards; therefore the corresponding manuals are
to be noticed.



PARSYTEC GmbH, Juelicher Str.338, 51 Aschen		
Title		
LINK - INMOS cable		
Size Document Number		
A	INKBL	REV
		2.0