

## Chapter 2 - Address Hierarchy of Branching Units Type NDBU-85/95

---

### Address hierarchy

When a system is built up, the branching units addresses must be set according to a certain hierarchy. Principal is that the closest branching unit to PC must always have biggest address number. (The addresses are set by dip switch S1 located on the branching units type NDBU-85/95; see chapter 1, section "Layout of branching units type NDBU-95").

### Available addresses

**Table 2/1: Available addresses**

Address	Usage	Address Switch S1 (***)							
		8	7	6	5	4	3	2	1
255	RESERVED	1	1	1	1	1	1	1	1
254	RESERVED	1	1	1	1	1	1	1	0
...	....."								
126	RESERVED	0	1	1	1	1	1	1	0
124 (125) ****)	NDBU 1	0	1	1	1	1	1	0	0
122 (123)	NDBU 2	0	1	1	1	1	0	1	0
120 (121)	NDBU 3	0	1	1	1	1	0	0	0
118 (119)	NDBU 4	0	1	1	1	0	1	1	0
116 (117)	NDBU 5	0	1	1	1	0	1	0	0
...	....."								
76 (77)	NDBU 25	0	1	0	0	1	1	0	0
75	RESERVED	0	1	0	0	1	0	1	1
...	....."								
2	RESERVED	0	0	0	0	0	0	1	0
1	RESERVED	0	0	0	0	0	0	0	1
0	RESERVED	0	0	0	0	0	0	0	0

**NOTE:** Addresses 124...76 (shaded in grey) are allowed branching unit addresses!

**NOTE:** Do not use addresses (125) ... (77) for drive addresses!

\*\*\*) Switch positions: 0 = OFF and 1 = ON

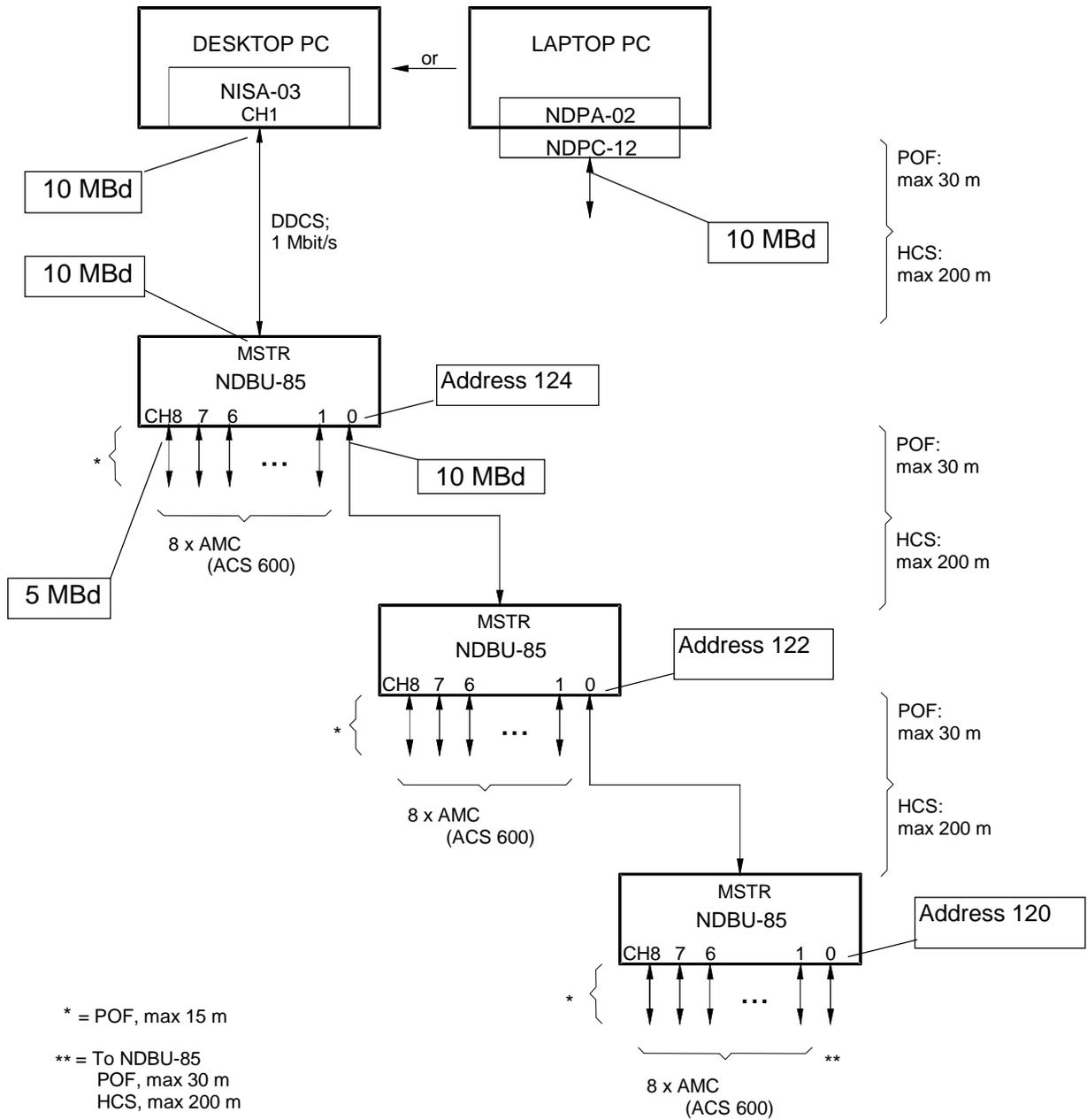
\*\*\*\*) Default address

Example: Address 76 ⇒ Make settings with Switch **S1/8 ... S1/1**  
 ⇒  $0 \times 2^7 + 1 \times 2^6 + 0 \times 2^5 \dots 0 \times 2^0 = 76$

**Type of optical components**      **Table 2/2: Type of optical components**

<b>UNIT</b>	<b>NAME</b>	<b>CHANNEL</b>	<b>5 MBd</b>	<b>10 MBd</b>
NISA-03	DDCS/ISA Bus Interface	CH 0	<b>X</b>	
		CH 1		<b>X</b>
NDPC-02	DDCS/PC card cable, 5 MBd		<b>X</b>	
NDPC-12	DDCS/PC card cable, 10 MBd			<b>X</b>
NDBU-85	DDCS Branching Unit, 8+1 Ch	MSTR, CH 0		<b>X</b>
		CH 1...CH 8	<b>X</b>	
NDBU-95	DDCS Branching Unit, 9 Ch	MSTR, CH 0...CH 8		<b>X</b>

**Example 2/1: Structure using a tree configuration (with NDBU-85)**



- AMC = NAMC-03 / -04 (AMC Classic)  
or NAMC 11 + NDCO-03 (AMC 1)
- NDBU-85 = DDCS Branching Unit, 8+1 Ch
- NDPA-02 = DDCS / PC Card Adapter
- NDPC-12 = DDCS / PC Card Cable
- NISA-03 = DDCS Interface for ISA Bus
- HCS = Hard Clad Silica Fibre
- POF = Plastic Optical Fibre