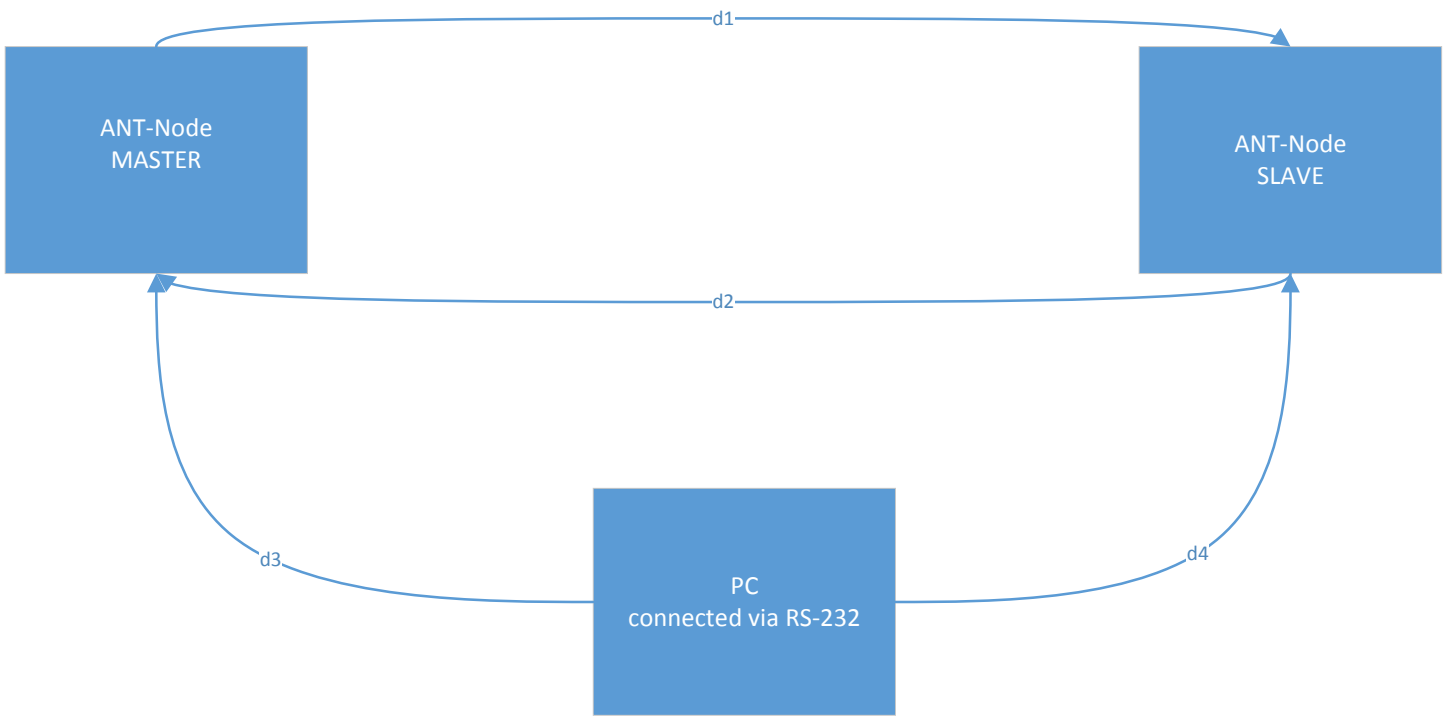
SHAMPU Delay Measurements



A = d3 + d1 + d4
B = 2d3 + d1 +d2
C =d4 + d2 +d3
D = 2d4 + d2 + d1

D1 = d – c/2 + (d-c)/2
D2 = b + c/2 + (d-c)/2
D3 = (-d +c)/2
D4 = c/2

Methodology:
1. Prepare Pingpayload [1 Byte == 1 char ‚p‘]
2. Save sendTimestamp in PC and send to Slave
3. Message arrives @ Slave:
3.1 directly reply msg to Master B = clock() – [savedTime]
3.2 msg to PC A = clock() – [savedTime]
4. Prep Pongpayload [1 Byte == 1 char ‚P‘]
5. Save sendTimestamp in PC and send to Master
6. Message arrives @ Master:
6.1 directly reply msg to Slave D = clock() - [savedTime]
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