

Introduction to RS485

- A Brief Overview of RS-485 Communication Protocol
- It was created for improvement of RS-232
- It was created by the Telecommunications
 Industry Association and Electronic Industries
 Alliance (TIA/EIA)
- It is also referred as RS-485, TIA/EIA-485, TIA 485
- It works as a Master slave module protocol

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Advantage of RS-485

- Allows reliable serial communication on a 2wire network
- Distance up to 1200m
- Data rate up to 10Mbps
- Up to 32-line device
- Allow good communication in Noisy Environment
- Worked in Half duplex mode but can work Full duplex mode also(with 4 Pin)

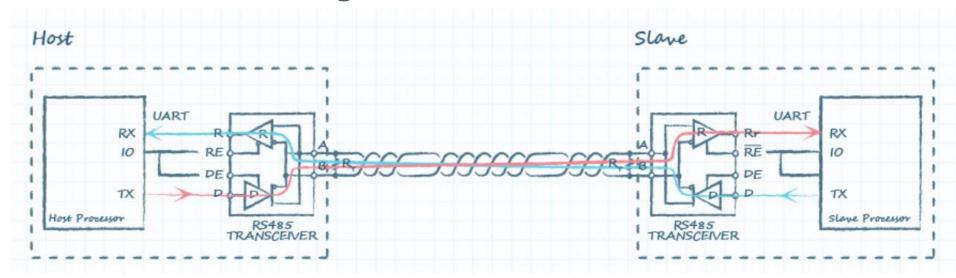
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Communication Diagram





USB to RS485 Converter in the R414A01 Module

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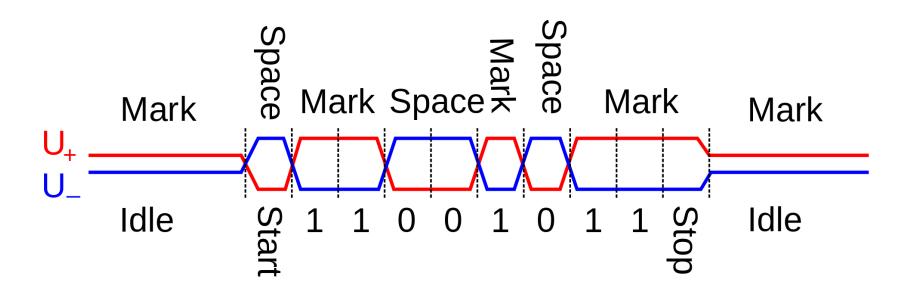
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Signal Transmission



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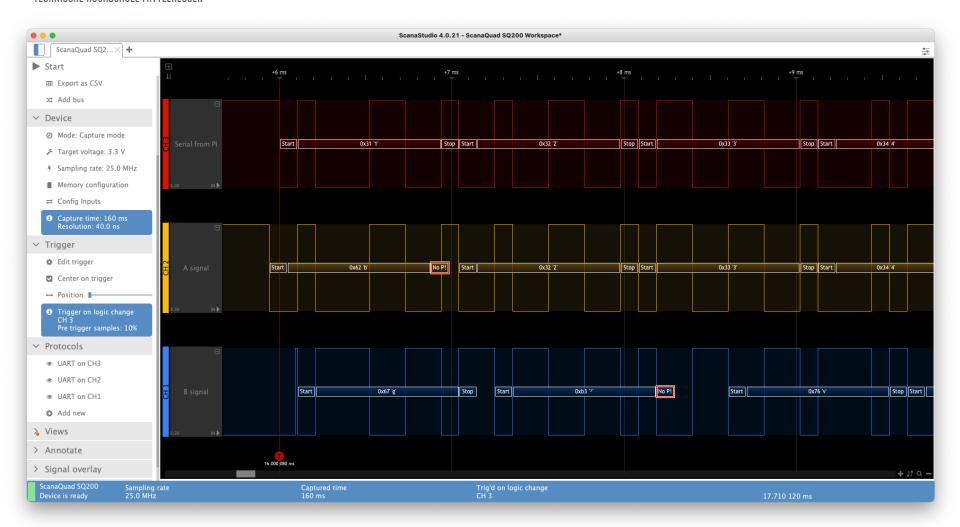
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IEM

Informationstechnik-Elektrotechnik-Mechatronik

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