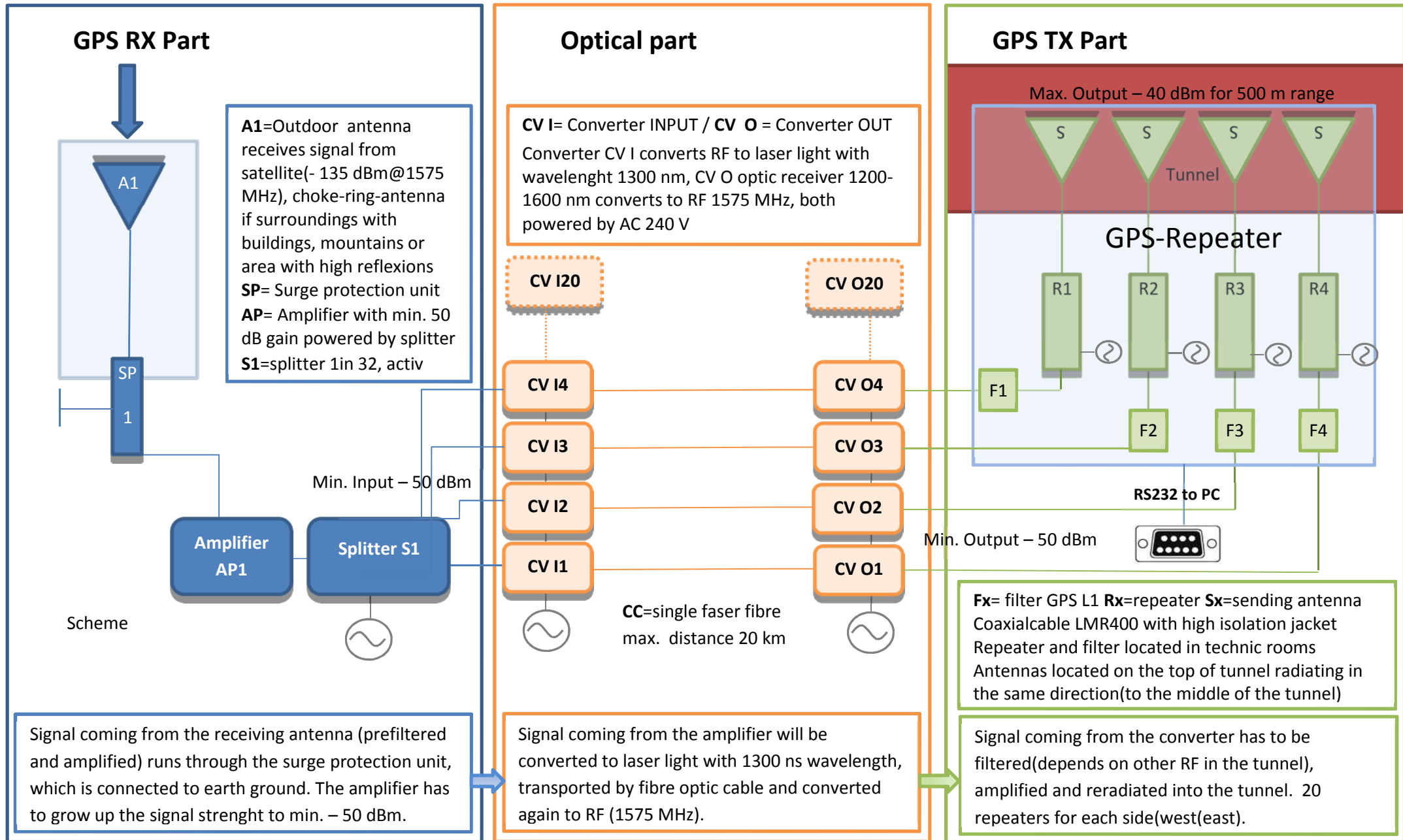


GNSS Retransmission System for GPS L1



GNSS Retransmission System for GPS L1

Interfaces:

1. GPS

Receiving:

A1= receiving GNSS signals coming from satellite with 1575 MHz, BW 20 MHz, mounted with a free sight to the sky

Sending:

Rx= broadcasting L1 GNSS signals inside the tunnel with a range of max. 500 m from each repeater in form of a conus, selection of suitable patch and/or helix antenna

Controlling:

Controlling and regulation of signal strength and DC voltage by application(for Windows) based on JAVA, commands could be implemented in other applications, based on RS232 or USB(if distance to controlling unit is nearby)

2. Fibre optic

Receiving and converting:

CVIx=receiving GNSS signals and converting them to 1390 nm laser light, minimum strength is around - 50 dBm@L1

Converting and sending:

CVOx=analog to CVIx

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Steps:

- Functional specification of the RF part with link budget calculation
- Selection of suitable components, quotation
- Planning, Prototyping, Delivery, Installation
- Measurement and Adjustment at site
- Acceptance

Time schedule:

	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28	Week 29	Week 30
Specification	X	X													
Selection/Quote				X	X										
Planning						X	X	X							
Delivery									X						
Installation										X	X	X	X		
Measurement														X	
Acceptance															X