Prototype Correlator Interface Specifications

Version AI06P 01.1

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IF –

1. Frequency Band : 2 - 18 GHz

2. IF Output Power at Receiver End : -24 dBm (Minimum)

3. Connection between Receiver Output and Correlator IF Input :
   Outdoor Flexible Coaxial Cable
   Length 16 ft (Tentative)
   5 dB Loss (Maximum)
   VSWR 1.6 (Maximum)

4. Connector Type : SMA or 3.5mm

5. IF Input Power at Correlator Input : -10 dBm (Minimum)

6. DC Power Requirement :
   +15 V @ 2 A (for 4 of IF amplifiers)
   +12 V @ 2A (for data acquisition)
   -12 V @ 1A (for data acquisition)

7. Mechanical Configuration :
   Enclosure : Universal NI Type (NI04042) from B&R Enclosures
   (http://www.brencl.com.au) – Size 400x400x200mm
   Mounting : TBD

Data/System Connection –

1. Connection : Ethernet
2. Platform /Software:
   Remote Sun or Linux workstation running X terminal to control/monitor correlator computer

3. Data Transfer/Storage: TBD

4. DC Power Requirement: TBD

5. Mechanical Configuration:
   Correlator Computer: rack mounted, 4U x ? HP x ? mm
   Outdoor Enclosure: TBD