

CoaXPress Range Extender over Coax

Overview

KAYA Instruments' CoaXPress extender over Coax is industry's first CoaXPress range extender. The extender increases standard CoaXPress transmission distance while maintaining a low jitter, high resolution and quality stream. The extender enables video, control signals and power over CoaXPress (PoCXP) transmission for full control of data stream and camera handle. The range extender is able to provide a downlink of up to 6.25Gbps and uplink at 20.83Mbps.



Features

- Coaxpress V1.1 compatible
- Increase transmission distance of CoaXPress
- Downlink/Uplink of 6.25Gbps and 20.83Mbps respectively
- Bidirectional CoaXPress communication
- DIN rail mounting (optional)
- DIN 1.0/2.3 connector for CoaXPress link
- Plug and Play, no need to configure
- Power over CoaXPress (PoCXP) support
- External power supply included
- 0°C to 50°C operating environment temperature
- -40°C to 70°C operating environment temperature (industrial grade, optional)
- IP66 rated enclosure (optional)

About CoaXPress



CoaXPress is a new digital transmission standard that allows high speed data from a device, such as a camera, to be transferred to a host, such as a frame grabber. Each CoaXPress link supports up to 6.25 Gbps data rates, along with device power up to 13W and device control at 20 Mbps – all on a single coax cable. For very fast devices, the links can be aggregated to provide multiples of the single coax bandwidth. Long cable lengths are supported – up to 40 meters at 6.25 Gbps and over 100 meters at 3.125 Gbps.

Applications

- ✓ High speed cameras
- ✓ High definition cameras
- ✓ Panoramic cameras
- ✓ Defense remote systems
- ✓ Surveillance
- ✓ Robotic Vision

Deliverables

- CoaXPress range extender
- Hardware user manual
- Power supply (optional)
- Coax cables (optional)

System Block Diagram

