FRINDEL OPTICS

How to collect uplink traffic with a beam splitter

How to collect uplink traffic with a beam splitter

Realizing Uplink MU-MIMO Communication in mmWave WLANs:

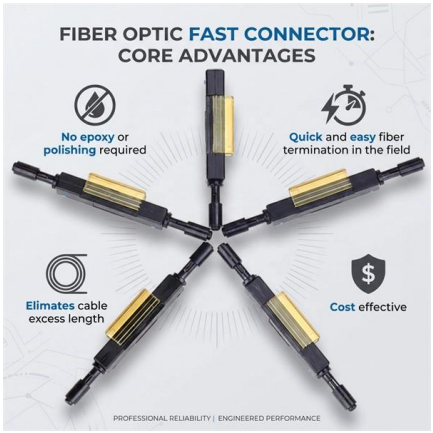
Yet, its uplink counterpart has not been well studied, and its way to wireless local area networks (WLANs) remains unclear. In this paper, we present a practical uplink MU-MIMO mmWave

Contact Us

Beam-based uplink multi-user detection for mmWave communications

The UEs are partitioned into groups according to their beam-channel characteristics. On the beam domain, we will design the uplink data detection in a per UE-group basis. At BS, a total of

Contact Us



(PDF) Beam-based Uplink Multi-user Detection for

In this study, the authors design multi-user data detection for the mmWave communication on beam domain. To effectively reduce the design complexity, they exploit the salient feature of

Contact Us

5G UL Beam Management Deep Dive , Massive MIMO

In this session, we take a deep dive into Uplink (UL) Beam Management, a key aspect of Massive MIMO that plays a crucial role in

Contact Us

Beam-based uplink multi-user detection for mmWave communications

Recently, utilising the sparse characteristics of the mmWave band, beam-domain signal processing has drawn increasing interest for future 5G systems. In this study, the authors design

Contact Us

WHITE PAPER 5G Uplink Enhancement Techniques

2. 5G Uplink Challenges and Enhancement Techniques Since 3GPP Release 15 specifications were first published there were certain challenges that uplink performance had to deal with. Firstly, 5G

Contact Us

Ethernet Splitter 101: Everything You Need to Know

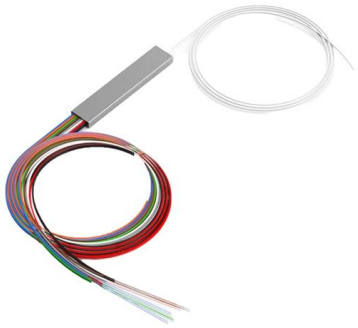
Everything you need to know about Ethernet splitters, including types, factors to consider when choosing one, and tips for installation and

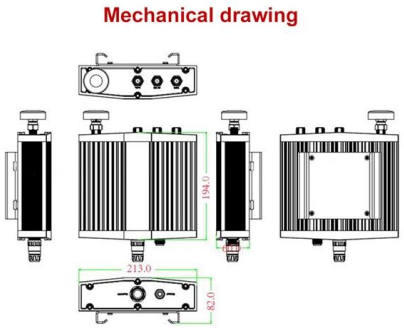
Contact Us

Traffic Splitting for End-to-End Delay Jitter Control in Uplink Multi

We provide an analysis of end-to-end delay jitter under LTE's synchronous HARQ in uplink and use the structural results so obtained to design a traffic split mechanism.

Contact Us





Downlink and Uplink Transmission

Downlink and uplink transmission refers to the communication channels in cellular networks where downlink is the transmission from base stations to mobile users, and uplink is from mobile users back

Contact Us

How does a beam splitter work? Common types and use cases

Understanding Beam Splitters Beam splitters are essential optical components used to divide a beam of light into two or more separate beams. They play a crucial role in various scientific,

Contact Us

Massive MIMO and Beamforming: The Signal

The uplink channel is the obvious choice, as just one pilot signal needs to be sent from the user terminal and is received by all antenna elements. The complexity of

Contact Us

Understanding Beamsplitters: Types, Principles, and

This article explores the fundamental principles and diverse applications of beamsplitters, detailing their different types and uses in fields such as optics

Contact Us

Beam-based uplink multi-user detection for mmWave communications

In this study, the authors design multi-user data detection for the mmWave communication on beam domain. To effectively reduce the design complexity, they exploit the salient feature of

Contact Us

Downlik vs Uplink beamforming for Multi-User MIMO in LTE and 5G/NR

High gain beamforming (BF) enabled by massive MIMO (mMIMO) is a promising method to achieve increased spectral efficiency and is expected to play a very important role in advanced

Contact Us

Your Go-to Guide to Optical Splitter

The optical splitter is an optical power distribution device that splits one optical signal into multiple optical fiber signals to achieve multichannel transmission.

Contact Us

Fiber Optic Splitter: How It Works & Types Guide

This guide demystifies fiber optic splitters, explaining their design, operating principles, types, key specifications, and real-world applications.

Contact Us

Understanding 5G Beam Management

Among the important features is beam management, which is used to acquire and maintain beams. It also defines new initial access procedures to ensure successful directional transmission. In this white

Contact Us

5G Beams Types: Broadcast & Traffic Beams - SSB,

For instance, we have broadcast beams and traffic beams. The Broadcast beams are mainly the common channel beams that are used to

Contact Us

How to Select the Perfect Beam Splitter for Your Optical Setup

Beam splitters play a vital role in optical systems. They are like the "traffic directors" of light. They help divide and manage light beams for various applications. Without them, many optical

Contact Us

Understanding High Power Polarization Beam

Polarization beam combiners/splitters are fascinating devices used in optics and telecommunications. In this blog, we'll delve into the world of High

Contact Us

How to Use a Beamsplitter Cube?

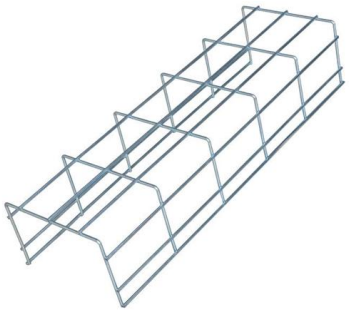
These versatile devices split an incident light beam into two or more separate beams, each with specific optical properties. Understanding how to use

Contact Us

Understanding Fiber Optic Splitters: Principles,

Understanding Fiber Optic Splitters: Principles, Parameters, Types, Applications, and Future Trends 1. Introduction Fiber optic splitters are integral components in the

Contact Us



WHITE PAPER 5G Uplink Enhancement Techniques

Note that this whitepaper focuses on the concept of Uplink (UL) transmit switching within the context of Carrier Aggregation (CA), specifically addressing scenario in which TDD + FDD ULCA (Uplink

Contact Us

Uplink Beam Management for Millimeter Wave Cellular MIMO

Focusing on the uplink communication, we present a novel beam training algorithm with dynamic beam ordering, which is suitable for the stringent latency requirements of the latest mmWave standard

Contact Us

DAS Deployment Overview

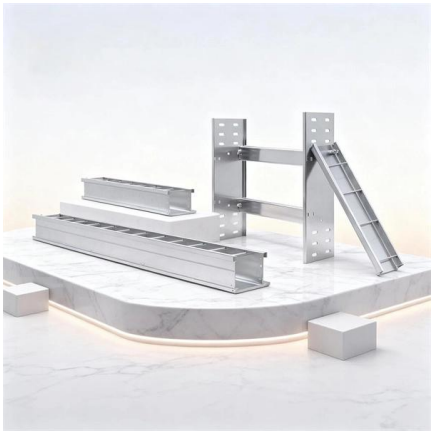
Collect a received signal strength reading of the main beam from all the antennas connected to this remote (from a safe distance away to avoid saturation) using a spectrum analyzer, such as CellAdvisor.

Contact Us

Analyzing the Uplink in the Age of AI

"The uplink traffic will increase significantly over the coming years and, indeed, is becoming telecom's new 'currency,'" the company wrote. "This

Contact Us



Contact Us

For datasheets, pricing, or custom fiber access solutions, please visit: https://frindel.es