

Wireless Ultraviolet Communication Module



Wireless Ultraviolet Communication Module



We demonstrate the use of deep ultraviolet (DUV) micro-light-emitting diodes (LEDs) for long-distance line-of-sight optical wireless communications. With a single 285 nm-emitting micro-LED,...



With recent developments of deep ultraviolet (DUV) light-emitting diodes and solar-blind detectors, UV communication (UVC) shows great potential in replacing traditional wireless communication in more ...



It combines the advantages of traditional optical communications and wireless communications, including non-line-of-sight (NLOS), anti-interference, low wiretapping and electromagnetic silent.



Compared with traditional wireless optical communications, the ultraviolet communication (UVC) can establish a non-line-of-sight (NLOS) link through scattering effect and has advantages such as local ...



The system is encapsulated with a visual tracking module and mounted on drones and vehicles, achieving mobile duplex real-time ...



Use of Far-UVC Light for Data Transmission and Sanitization: The system utilizes Far-UVC light, specifically in the germicidal wavelength range (207-230 nm), for wireless communication. This range ...



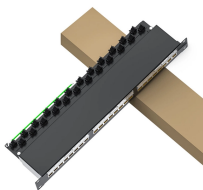
we developed a UV array light source system, verified the correctness of the proposed distribution and MC methods. Reliable communication over long distances using ultraviolet (UV) light ...



Learn about the SA528 UV dual-band wireless voice and data transceiver module featuring independent TX/RX frequencies, long-range communication, high sensitivity, TCXO stability, and flexible wireless ...



Our simulation results show that the transmission distance plays a dominant factor in all scenarios, whether the communication terminals are coplanar or noncoplanar and with or without a height ...



All users within a 46 m² area of the system have access to the DUV communication network through an integrated wireless module. Real-time video is demonstrated and different types ...



The system is encapsulated with a visual tracking module and mounted on drones and vehicles, achieving mobile duplex real-time communication under sunlight. The communication ...

