RAYPATH

LASER BASED HYBRID COMMUNICATION SYSTEM WITH RF BACKUP LINK

LARGE BANDWIDTH (REAL TIME, 512 FULL HD VIDEO, VOICE, DATA, ALL INFORMATION)

SECURE COMMUNICATION DATA, VIDEO, VOICE ETC.

HIGH SPEED (1GBPS)

CAN NOT BE JAMMED

CAN NOT BE DETECTED

NO LICENCE FROM SPECTRUM AUTHORITY

LOW POWER CONSUMPTION

EASILY DEPLOYABLE

NO INTERFERENCE

PORTABLE

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GENERAL FEATURES

FSO/Laser Communication System (LCS) consists of wireless laser communication systems that provide point-to-point high-speed, broadband connectivity, are immune to jammers, electronic warfare and eavesdropping, require no licensing, and can be easily deployed(portable). It is also known in the literature as Free Space Optic (FSO) Communication. In a hybrid-operating laser communication system, when a physical obstacle obstructs the laser, it automatically switches to an RF communication system. This ensures that your connection is never lost, providing a reliable communication system. Thus, you have a perfect link in all weather conditions.

TECHNICAL PARAMETERS

LASER GENERAL FEATURES

Throughput	1 Gbps
Distance	11.000 meter
Delay	250us
User Interface	RJ 45 & SFP
Standard	IEEE 802.3
Weight	<10 kg
Power	<56 W

BACKUP CHANNEL

Backup Channel	RF
RF Speed	350 Mbps
Frequency	5-6 GHz
RF Power	16 W
Monitoring	IP-Firmware
Configuration	SNMP

APPLICATION AREAS

- Military Communication and Information Systems
- At Satellite System Installation Centres,
- Between the Security Base Area and Division/Brigade/ Battalion,
- In areas requiring RF silence,
- In base areas where anti-drone systems are deployed,
- During military exercises,
- In RF-dense and polluted operational zones,
- In communication areas requiring extra security
- Outdoor wireless access
- Storage Area Networks
- Last-mile access
- Enterprise connectivity
- Fiber backup
- Metro-network extensions
- Service accelerations
- Point-to-point links
- WAN access bridging
- Between Military Bases,
- Within the Integrated communication infrastructure
- Between Communication Electronics Information Systems
- Combat Electronic Information Systems