Emergency Communications via Fiber Optic Technology

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CORPORATE OVERVIEW

Microwave Photonic Systems, Inc. is a full service design and integration engineering firm, that specializes in the development and manufacture of RF/Microwave and fiber optic components, cable assemblies, modules and systems.

Microwave Photonic Systems, Inc. provides products and services to a wide array of military and commercial customers, who operate in the Broadband, Defense, Telecommunications, SATCOM, and Wireless markets.



PRINCIPAL BUSINESS AREAS

KEY MARKETS

- MIL SATCOM
- ELECTRONIC WARFARE
- TERRESTRIAL RF
 COMMUNICATIONS
- GPS NAVIGATION & TIMING SYCHRONIZATION
- MIL TACTICAL FIBER OPTIC CABLING
- DISTRIBUTED ANTENNA SYSTEMS











PROVEN TECHNOLOGY IN CRITICAL NETWORKS

- Fiber Optic Technology Is Deployed Globally
 - Network Operation Centers
 - Emergency Response Centers
 - C4ISR Command Posts & Secure Facilities
 - Naval Shipboard & Maritime Vessel
 - Oil, Gas & Mining Operations
 - Rail & Tunnel Complexes



TECHNICAL BENEFITS

- RF Photonic Distribution Provides Novel & Secure RF Signal Transmission Architectures
 - Increased Antenna Separation Distances: Lower Loss Over Distance
 - Reduction in Equipment for Repeaters & Amplifiers
 - All Dielectric Transmission Path
 - Immune to RFI/EMI/EMP Disruptions
 - Dual Redundant / Path Diversity Architectures
 - Matrix Switching Schemes
 - Reduction of Cable Weight
 - Flexibility In Cable Routing Increased Bend Radius
 - Reduction in Occupied Building / Infrastructure Conduit



EMERGENCY COMMUNICATIONS

- World Threats and Natural Disasters require immediate solutions to fulfill risk mitigation strategies
- Necessitates Robust, Secure and Rapidly Deployable Solution
- Requires Non-Terrestrial Based System Architecture
- Architectures of Point to Point and Point to Multi-Point
- Unique Operational Duty Cycle



ISAT-7700 SYSTEM OVERVIEW

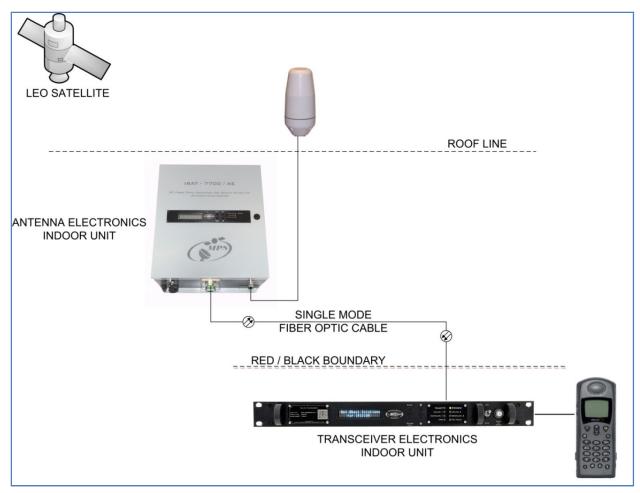




- In-Building Fiber Optic Transmission
 System For Satellite Telephones
- Antenna Unit and Radio Electronics Unit
- Single Mode Fiber Interconnect For Secure Distribution, >10km
- Supports Classified and Unclassified Communications
- Single & Multiple User Architectures
- Indoor, Outdoor, Transit Packaging Options
- Front Panel Display & Remote Monitoring

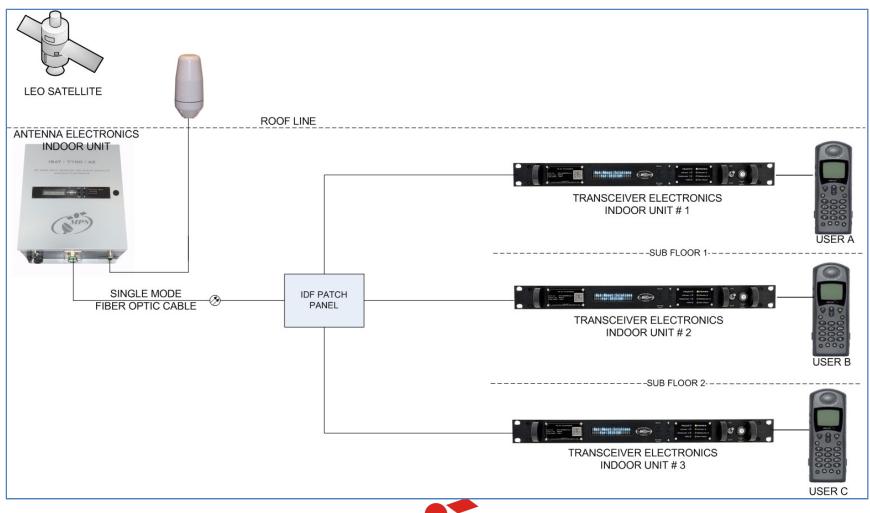


POINT to POINT ARCHITECTURE





POINT to MULTI-POINT ARCHITECTURE





POINT to MULTI-POINT with MULTI-SUBSCRIBER

