

Spectrum Overview

Complete End to End Transmission Solutions Provider.

Spectrum Communications is an OEM Manufacturer of Microwave Radio Systems and a leading System Integrator providing complete IT and Telecom Solutions to Network Operators, GSM Mobile Operators and Internet Service Providers (ISPs) in the Middle East and Africa Region.

Spectrum Communications is managed by a team of Telecommunication Professionals with more than 30 years combined experience in all aspects of Networking Solutions by providing World Class Products and Services to the esteemed clients.

Spectrum Communications has an extensive Sales and Support Structure addressing the Middle East and Africa Markets with State of the Art Products and Services. It offers complete Service from Concept to Implementation including Network Design, Network Planning, Supply and Implementation of Equipment to After Sales Services, ns for various Telecom and IT related Projects under one roof. The company is number of offices located in the UK, UAE, Lebanon and Malawi. The objective of the offices is to be closer to our customer to provide better Customer Service.

Spectrum Communications supports complete Turnkey and Semi-Turnkey Solutions. Products and Services include: Point to Point Digital Microwave Radios, PDH and SDH Add/Drop Multiplexers, Wimax Compliant Radios Systems, Rectifiers and Standby Batteries, Installation Accessories, Installation, Commissioning and Training.

Solution and Services Supported by Spectrum

<p style="text-align: center;"><u>Digital Micro-Wave Radios.</u></p> <p>Transmission Connectivity for Mobile Fixed Line and ISP Operators</p> <ul style="list-style-type: none">• 4E1 4E1 to 63E1 Systems, STM 1 Radio Systems• 100M Ethernet Bandwidth Support for IP Transport.• Frequency Band 2G to 38G. <p>• Integrated Traffic Routing</p> <p>• Build-in Smart Cross Connecting Function</p> <p>• Software controlled 2 way modem with HSB, FD, SD, HD, East/West and ring configuration</p>		
<p><u>WIMAX Compliant (Point to Multipoint Radios).</u></p> <ul style="list-style-type: none">• Data, LAN Inter-working, IP Transport and Internetworking Application in Service Provider, BackHauling• 3.5G Frequency Band• For Access and BackHaul Applications• Supporting NLOS Connectivity	<p><u>SDH/PDH ADM & Cross-Connects</u></p> <ul style="list-style-type: none">• Groom & Transport Voice and Data Traffic• Fiber, Copper and Radio Transport Medium.• Support Bandwidth from 1.2kbit/s to STM64	
	<p><u>G.SHDSL Modems</u></p> <ul style="list-style-type: none">• E1 Modems G.703, V.35 and Ethernet I/Faces.AC and DC Powered Units Supported	

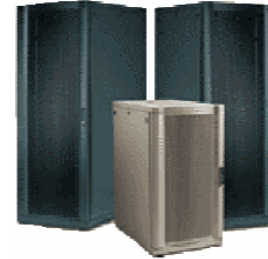
Standby Batteries

- Used with Back Up Rectifiers in GSM Networks
- 100AH upto 3000AH 12 V Batteries.
- Rack Mounting versions available with front terminals.



Cabinets

- 19" Mounting Cabinets and Racks to House Telecommunication and Data Communication Equipment with Glass Doors and Removable Side Panels.
- Ranging from 4U, 6U, 9U, 15U, 18U, 24U, 27U, 42U and 47U
- Wall Mounting and Floor Standing
- 300mm, 450mm, 600mm and 800mm footprint



Installation Material and Accessories

- Cables, Jointing Material, Outside Cabinets.
- Heat Shrinks and Accessories.
- PCM, Feeder, Coaxial, Multi-Pair, CAT5E, all Types of Cables.
- All Types of Connectors used in Communications Environment such as BNC, SMB, N Type, RJ11, and RJ45....



Free Space Optics (FSO)

- Integrated voice, data and video
- High bandwidth communications links up to maximum of 4 km.
- No ongoing leasing costs or licensing costs.
- Our systems can support Bandwidths from 2Mbps to 1Gbps.

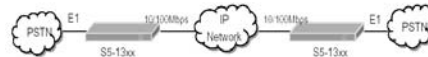


Support Services

- Installation, Commissioning, Training and Post Sales Support for all Products.
- Radio Planning for Microwave Radios including Path Profiling, etc

Data Converters

- For Enterprise and Corporate Networks Application for seamless WAN to LAN Interconnection.
- Interconnects IP and Ethernet to WAN E1



for Transport over the WAN Networks

Repeaters CDMA and GSM

The GSM and CDMA RF Repeaters are designed to solve problems of weak mobile signal in a cost effective manner compared to adding a new base station (BS). Main operation of the repeater is to receive low-power signal from BS via radio frequency (RF) transmission and then transmit the amplified signal to the areas where network coverage is inadequate. The mobile signal is amplified and transmitted to the BS via the opposite direction.

