

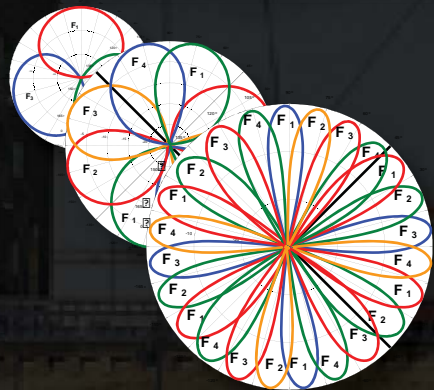
Solutions for Wireless Access

ETI offers a wide range of solutions for wireless access. Whether in an Urban or Rural setting or for Backhaul applications, ETI will provide a solution tailored to fulfill customers' requirements for capacity and coverage.

Dense Urban Environments



In urban area networks where site acquisition is often difficult and costly, the capacity and coverage of individual cell sites will limit the number of subscribers and services offered. Even where site acquisition is not a concern, a high density of cell sites can lead to inter-site interference, reducing data rates. In addition, limitations in bandwidth result in corresponding limitations in capacity.



ETI offers a rich array of solutions. Multi-beam Antennas are used to increase the number of sectors per site

ETI's meets these challenges by offering solutions based on very high (capacity/ dense) cell sites. ETI's solutions for dense urban environments make use of its state-of-the-art, multi-beam antennas to generate higher performance than the standard 3 or 4 sectors per site. Each sector is associated with its own base station and the total capacity of the site is directly related to the number of sectors. The sectors are isolated by a combination of advanced beam-forming technology and the use of both the vertical and horizontal polarizations, enabling frequency reuse. ETI can therefore provide high capacity cell sites even with limited bandwidth. ETI multi-beam antenna solutions insure maximum flexibility ranging from 1 to 72 sectors per cell site.

Rural Environments



Networks in rural environments often have different profiles from urban networks and need to accommodate for greater diversity, dispersion and distances. ETI offers a host of solutions for coping with the demands of deploying a rural network. For instance, by using high power radios in conjunction with high gain antennas ETI can provide cell sites with up to 70 Km radius (LOS conditions) of coverage. ETI with its extensive variety of antennas and radios can provide a system to meet the challenges of a rural network environment.

ETMAX Wireless Backhaul Solutions

WiMAX has triggered tremendous growth in broadband services from wireless customers, applications leading to increased bandwidth requirements. ETI's ETMAX backhaul solutions will enable you to meet these demanding challenges while reducing expenditures. Utilizing ETMAX backhaul solutions creates a competitive advantage for WiMAX operators to increase revenue while delivering higher bandwidth services.



ETI solutions meet the requirements of diverse WiMAX urban, rural and backhaul usage models with a complete portfolio of technologically advanced antenna and network products.

Professional Services



ET Industries wireless solutions help you deliver services! ETI's professional services will deliver a complete range of solutions at all stages of the design, deployment and post deployment life cycle.

Design

ETI provides you support for requirements analysis, network architecture, design and test planning.

Deployment

ETI Services support you through all network deployment stages with site survey, subscriber analysis, cell and frequency planning, field trials, first time cutover, network management, on-site support, installation, test and training capabilities.

Program Management

Successful completion of projects in a timely and cost effective manner is ensured by dedicated ETI Program Management team.

Maintenance & Support

ETI services will support your service level commitments with a full range of product assurance, product replacement, tailored response times and different levels of support. ETI ensures the availability of tested and certified products /software with long life times.

Training

ETI provides custom, standard, and online training options to suit the broad nature and needs of the customer.

How to Purchase

To discuss your specific requirements and get a quote of required products and solutions contact us at sales@etiworld.com

ETMAX Duo Pol Antenna Specifications

Frequency Band	2.4GHz	3.5GHz	5.4, 5.8GHz	10GHz
Specification/Parameter				
Electrical				
Frequency Range	2.2-2.9GHz	3.1-3.7GHz	5.2-.5.9GHz	10.2-10.8GHz
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Connector	N Type	N Type	N Type	SMA Type
Polarization	Duo Pol (H, V, Dual)	Duo Pol (H, V, Dual)	Duo Pol (H, V, Dual)	Duo Pol (H, V, Dual)
Gain	22dB	22dB	22dB	22dB
Power Rating	20W	20W	20W	20W
Half Power Angle				
H-Plane	90°	90°	90°	90°
E-Plane	5°	5°	5°	5°
Sectorization (*)				
Sector Peak Angles from broadside	±7° ±22° ±38°	±7° ±22° ±38°	±7° ±22° ±38°	±7° ±22° ±38°
SubSector Beam Width	15°	15°	15°	15°
Mechanical				
Length	50 Inches	36 Inches	24 Inches	13 Inches
Width	46 Inches	31 Inches	21 Inches	11 Inches
Depth	2.5 Inches	2.5 Inches	2.5 Inches	2 Inches
Weight	30 Lbs.	21 Lbs.	13 Lbs.	3.1 Lbs.
Fabrication	High quality low loss teflon based mico materials; copper feedlines with protective coating - UV safe fiberglass radome	High quality low loss teflon based mico materials; copper feedlines with protective coating - UV safe fiberglass radome	High quality low loss teflon based mico materials; copper feedlines with protective coating - UV safe fiberglass radome	High quality low loss teflon based mico materials; copper feedlines with protective coating - UV safe fiberglass radome
Mounting	Mounting brackets conforming to site location	Mounting brackets conforming to site location	Mounting brackets conforming to site location	Mounting brackets conforming to site location

* Phased Array antenna incorporating beam forming and beam shaping network, producing six beams in 90° beamwidth

Wireless Innovations



www.etiworld.com

50 Intervale Road, Boonton, NJ 07005, USA,
Tel: 973-394-1719 Fax: 973-394-1710
email: sales@etiworld.com

ET Industries, Inc. is a leading high performance technology company specializing in design, development and manufacturing of wireless systems and components to meet the challenges presented by the evolving nature of diverse wireless communications, in particular WiMAX. The company offers total end-to-end WiMAX solutions. ET Industries' expertise is gained from our in-depth experience with military and commercial deployments and enables the company to provide custom solutions and implementations of wireless systems. The foundation of our wireless systems is based on our antenna's beam forming/shaping technology that gives ETI a unique advantage. With our exclusive antenna technology, ET antennas can provide several times more data throughput and subscriber density, increased coverage area and greater spectral efficiency than traditional antenna systems.