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ELAN Technologies is a multifaceted design engineering and manufacturing company providing state-of-the-art technology solutions for municipal, government, and investor owned utilities.

The ELAN philosophy of one industrial wireless network leverages available infrastructure for industrial communication with remote assets. ELAN provides industrial grade wireless technologies including WiMAX 802.16d, 802.16e, ELAN-MESH 802.11 (a,b,g,n), point to point microwave backhaul and narrow band industrial wireless for distribution automation and AMI.

ELAN is a participating member company of SGIP for wireless communications. ELAN is a valued contributor for the advancement of Smart Grid interoperability, and specifically testing and certification for all ELAN Smart Grid systems.



Innovative solutions to the  
most difficult monitoring  
and control requirements



## Description

ELAN-MX5™ consists of fixed broadband wireless access equipment (Access Point and CPE) for Internet, data, multimedia, video, voice, and other emerging IP based applications. Combining WiMAX with higher level network features, ELAN-MX5™ provides a robust, cost-effective alternative to wired alternatives such as T1/E1, DSL and cable modems.

The ELAN-MX5™ offers service providers a standards based Non Line of Site (NLOS) platform that helps improve cell range and penetration compared with proprietary single carrier solutions. It also supports Quality of Service (QoS) features like CIR and PIR along with advanced scheduling services like best effort service, real time polling and UGS services. This allows a service provider to offer different classes of service to different end customers. Deployments may use frequencies from the U-NII and ISM 5GHz spectrum. Select from various modulation options and antenna polarizations, all in a low cost, easy-to-deploy product.

## Key Features

- WiMAX Compliant (802.16d), NLOS, Point-to-Multipoint system
- FCC and CE approved for U-NII and ISM bands
- Supports 5.47 - 5.85 GHz operation on a single platform
- QoS Support (CIR, PIR)
- Programmable dual-pol. Access Point antennas
- Dynamic Frequency Selection (DFS)
- Integrated GPS synchronization
- Up to 40 mbps throughput

## Applications

- Wireless ISPs
- Rural Broadband
- Public Safety
- Transportation
- Enterprise Networks
- Smart Grid, Low Latency Distribution Automation

## Benefits

- Improved cell penetration and range
- Improved cell throughput (Up to 64QAM modulation)
- Different SLAs for different end users