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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

The ELAN-MX3™ Access Point is a Point to Multipoint (PMP) base station product designed to operate in the 3.3-3.8 GHz spectrum and supports 3 different Duplex architectures – Full Duplex FDD (Frequency Division Duplex), Half Duplex FDD, and TDD (Time Division Duplex). This WiMAX-2004 compliant Non Line of Site (NLOS) platform supports a strong suite of Quality of Service (QoS) features and multiple services, which allow a service provider to offer different Service Level Agreements (SLAs) to hundreds of residential, SoHo, MDU and SME users from a single Access Point location.

ELAN-MX3™ Access Point offers service providers an excellent return on investment. Its low cost, easy to deploy architecture allows service providers to generate revenues with a minimum investment in CAPEX and OPEX. Service providers can offer reliable, high quality, revenue generating applications (data, voice and video services) using specialized protocols such as Call Admission Control (CAC), SIP, and IGMP. The Access Point communicates with different ELAN-MX3™ CPEs (Outdoor and Indoor) installed in business and residential premises. This mature platform has been deployed in large data, voice and video networks and ensures reliable operations in the field. Axxcelera provides a suite of management, installation, provisioning and configuration tools, which make the installation, and maintenance of the Access Point extremely simple.

Key Features

- WiMAX Compliant (802.16-2004)
- Robust NLOS operation in 3.3-3.8GHz bands
- FCC approved for 3.65GHz operation
- Supports Full Duplex FDD, Half Duplex FDD or TDD operation
- Comprehensive Quality of Service (CIR, PIR, Priority) and VLAN support
- Integrated GPS for TDD synchronization

Applications

- Data applications (High speed Internet Access, VPN, VLAN, Video Conferencing)
- VoIP applications (SIP, CAC)
- Video Broadcast (IGMP)

Benefits

- Maximizes revenues (high spectral efficiency with aggressive re-use)
- Minimizes CAPEX (low cost, easy to deploy)
- Robust, field proven platform