

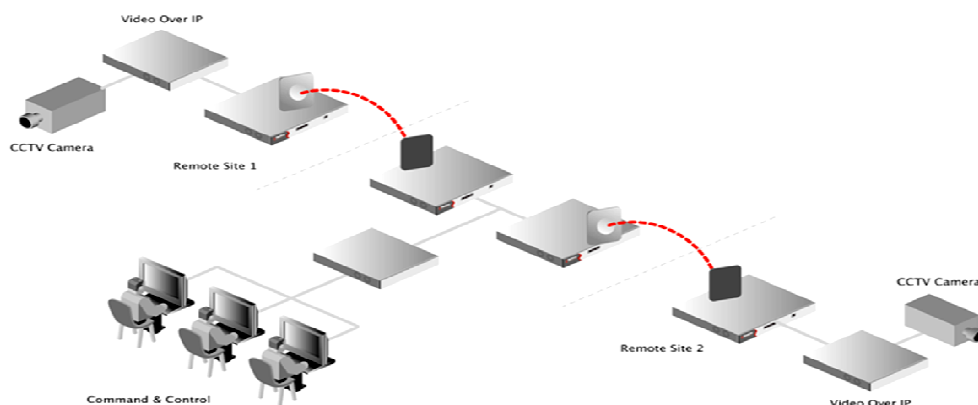
Wireless Telemetry and Surveillance Networks

A variety of services and applications can be supported from a modern wireless broadband network. In most of the cases, the wireless network extends the wired network by connecting remote points where no other connection is possible or affordable.

The major advantage of such networks is that they operate as high capacity “wireless bridges” in order to connect remote isolated sites and enable the provision of **telemetry and surveillance** services and applications requiring high speed data rate traffic and in the same time quality of service.



In this way, remote measurement and reporting of information of interest to the system designer or



Marac is in position to provide “turn key” solutions for Wireless Telemetry Networks. Our product portfolio includes modern OFDM based high capacity wireless systems and Free Space Optics laser systems that realize such networks.

Marac can also provide the planning and design of the solution, as well as integrated services with existing systems and infrastructure.

Indicative Applications

- Management of systems in remote sites
- Video surveillance and traffic control systems
- Remote monitoring
- Remote sensing
- Voice over IP applications
- Video conference
- Telemedicine
- e-learning applications, virtual classroom
- e-government applications
- VPNs for enterprises and other organizations

Application Note

Wireless Telemetry and Surveillance Networks

Key OFDM Features

- Robust wireless links even in the presence of multipath interference
- Ability to operate in some non line of sight conditions
- Ranges up to 80 km
- Extremely low latency for time sensitive applications like VoIP and video conferencing
- Adaptive modulation is used to changing line conditions for robust link reliability
- High speed communication
- Carrier class remote Network Management System support
- Over the air encryption

Operation in license free frequency bands

Key FSO Features

- High capacities
- Quick link setup
- License-free operation
- High transmission security
- Low snow and rain impact
- Full duplex transmission
- Protocol transparency
- No interference

No license required

About MARAC

MARAC Electronics, S.A. was founded in 1976 in Piraeus and is considered as one of the most important groups in the field of technology and integration of wireless/wireline access and transmission networks, corporate telecom and datacom solutions.

Its 30 years of experience and its benefits, have established very well the company into the Greek Market as well as in most of the countries in South-Eastern Europe, helping operators, service providers, enterprises and government organizations roll out broadband networks and solutions to support advanced communications.

Marac is certified according to ISO 9001/2000 and has been a member of the Stock Exchange of Athens since 2003.