



## Customized Microwave Solutions

SAF Tehnika is a European (Latvian) designer and manufacturer of digital microwave radio equipment. SAF microwave radios provide wireless data and voice transmission solutions to various customers, including mobile and fixed operators, ISPs, local governments, utilities, schools/universities and others in 100 countries worldwide.



Szigetszentmiklos,  
near Budapest, Hungary

# Hungarian ISP backbone upgrade

**Partner:** AccessPoint Kft.  
**Customer:** Broadband Media Hungary Kft.  
**Location:** Szigetszentmiklos, Hungary  
**Solution:** 24GHz SAF FreeMile microwave radio system

“Our customers are 100% satisfied with their choice of 24GHz SAF FreeMile equipment.”

**Mr. Gergely Zelena**  
Director, AccessPoint Kft.

### THE PARTNER

**AccessPoint Kft.** was founded in 2003 and is owned by a Hungarian investment group called Wiera Zrt. The company is focusing on wireless and microwave technology since the beginnings. Now they are one of the key players on the market thanks to their innovative business strategy, highly educated technical team and wide range product portfolio.

### THE CUSTOMER

**Broadband Media Hungary Kft.** is a Hungarian wireless internet service provider. Company was founded in 2008 and in 2010 has merged into Digi TV (<http://www.digi.tv/>). They provide internet services on the southern part of the Pest region to 1400 customers.



Budapest, Hungary

### CHALLENGE

Broadband Media Hungary Kft. has been using 5.8GHz point-to-point radio system and decided to replace it with professional radio equipment of higher channel throughput - up to 100Mbps full duplex. They preferred SAF FreeMile as it is license-free carrier grade equipment, meeting their technical requirements for 24GHz equipment and providing future-proof setup. SAF products have a high component quality with built-in surge arrester, grounding, EMC protection, wider temperature range and other advantages which results in higher reliability.

### SOLUTION

AccessPoint Kft. installed SAF FreeMile 24GHz radios between Szigetszentmiklos and Szazhalombatta towns, close to Budapest, using 99 cm antennas. Distance between sites: 10.1 km.

## KEY BENEFITS

SAF Tehnika has been chosen because of the following reasons:

- reliable carrier grade equipment
- great value for money
- provides 100 Mbps Full Duplex capacity guaranteed
- 24 GHz license free, no annual license fee

## SAF FreeMile HIGHLIGHTS

- New generation **Licence Free 17GHz** and **24GHz** ISM band radio for Ethernet traffic and E1/T1 voice transmission (TDM traffic)
- Carrier grade full duplex capacity 100Mbps + 2E1/T1
- Hitless modulation switching (ACM) feature ensures high availability even at poor weather conditions
- Easy configuration from web interface and up-to-date network management over SNMP protocol
- Radio polarization sensor for easier installations
- RF spectrum analyzer

## DETAILS OF THE NETWORK

Equipment	SAF FreeMile 24GHz
Link distance	10 km
Frequency	24GHz
Capacity	100Mbps full duplex
Services	Ethernet



SAF FreeMile all outdoor system



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