

FlexWave™ MMX 6000

Pico WiMAX Base Station



The FlexWave™ MMX 6000 is a member of the FlexWave MMX family of mobile WiMAX broadband wireless access systems based on the 802.16e mobile standard.

The FlexWave MMX 6000 is a scalable, single-piece mini-base station that supports up to 512 subscriber units. It provides dedicated enhanced outdoor and in-building coverage and capacity, and enables differentiated services in locations where increased coverage and capacity are needed.

The MMX Pico Base Station is WiMAX Forum Wave2 (MIMO) certified and is currently the smallest base station on the market. The unit is light weight and can be installed by one person on poles, street lamps or walls. The MMX 6000 can also be used to feed ADC's InterReach® Fusion WiMAX in-building Distributed Antenna System (DAS).

The FlexWave MMX 6000 provides all the functionality necessary to communicate with fixed and mobile subscriber units according to the service criteria and customer Service Level Agreements (SLAs). It includes various network interfaces for flexible integration into the wireless operator's network backbone. The end-to-end Quality of Service (QoS) ensures that the same high quality WiMAX experience is delivered to customers outside or inside his/her home or small office. The MMX 6000 is supported by ADC's FlexWave NMS management system.

Features

- Lowest cost pico base station for lower OPEX and CAPEX
- Small size – one man installation
- Limited output power for outdoor or in-building WiMAX Access Point
- Supporting 2.X, 3.X GHz bands

SPEC SHEET



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MMX 6000 Highlights

- Mobile-WiMAX compliance based on IEEE 802.16e standard and Wave2 (MIMO) certification
- Support of worldwide WiMAX deployments in the 2.X and 3.X GHz band (special frequencies available upon order)
- Install anywhere – for coverage of holes in wireless deployments and increased capacity issues
- Limited output power – ideal for both outdoor and indoor installations
- Scalable architecture supporting up to 512 subscribers on the same unit
- Quality of Service (QoS) for reliable, best-in-class wireless coverage and capacity delivering the same high quality WiMAX experience inside the home/office
- Adaptive modulation to optimize throughput and facilitate performance robustness
- Ecosystem compatibility with any FlexWave product or 802.16e standard compliant WiMAX network equipment



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Specifications

RADIO AND MODEM

Frequency:	MMX 6125-205: 2496 to 2690 MHz MMX 6135-205: 3300 to 3800 MHz
Sectors:	1
Radio Access Method:	IEEE802.16-2005 (16e OFDMA)
Compatibility:	WiMAX Forum Wave 2 Profile
Operation Mode:	TDD
Channel Bandwidth:	3.5MHz, 5 MHz, 7MHz, 10 MHz
Frequency Resolution:	0.25 MHz
Antennas:	External Antenna Ports
Number of Antennas Default Antenna:	2
Antennas Connectors:	2x N-Type, 50 Ohm, lightning protected
Diversity Support:	2x2, STC/MIMO-SM
Output Power per Sector[P1dB]:	2 x 500 mW
Output Power (average):	27 dBm +/-1dB maximum
FFT/Modulation:	512/1024 FFT points; QPSK, 16QAM, 64QAM
FEC:	Convolution Code and Turbo Code
TPC:	15dB
Synchronization:	GPS or IEEE1588 (optional)

NETWORK INTERFACES

Network:	1. 40.5-60VDC 2. 10/100BaseT Half/Full Duplex IEEE 802.3 CSMA/CD Fiber Optic - optional WiMAX Forum R6 Profile C, Compatible with CISCO ASN-GW, WiChorus SC Family
ASN GW Compatibility:	

CONFIGURATION AND MANAGEMENT

Management:	SNMP
SNMP Agent:	SNMP ver 2 client: MIB II (RFC 1213) Private ADC MIBs
Software Upgrade:	FTP
Remote Configuration:	FTP

MECHANICAL

Dimensions [HxWxD]:	24 x 20 x 4 cm 9.5" x 7.8" x 1.6"
Weight:	< 4 kg / 8.8 lbs

POWER INTERFACE

Input:	48VDC
Power Consumption:	39 Watt

ENVIRONMENTAL

Operating Temperature:	-40°C to +55°C
Operating Humidity:	5%-95% non condensing, weather protected

STANDARDS COMPLIANCE

EMC:	FCC Part 15, Subpart B ,Class A ETSI EN 301489-1/4
Safety:	TUV-UL 60950-1 IEC 60950-1
Environmental:	ETS 300 019: Part 2-1 T 1.2 & Part 2-2 T 2.3 Part 2-4 T 4.1E
Immunity:	IP66 EN61000-4-2 EN61000-4-4 EN61000-4-5
Radio:	FCC Part 27 ETSI EN302 326

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Website: www.adc.com

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