FlexWave™ Focus

Wireless operators are being pushed to keep up with the current growth of customers and wireless applications. As wireless usage has tripled in the past few years along with the emergence of the wireless web, dozens of new applications and the move from 2G to 3G technology, wireless network operators are pressured to find fast, cost-effective ways to increase capacity, expand coverage and ensure clarity. The FlexWave family addresses these challenges by distributing RF over fiber from a central basestation hotel to multiple remote sites. FlexWave products from ADC provide an innovative economical alternative to today's expensive and difficult-to-deploy solutions.

FlexWave Focus Features

- Broadband technology (supports 500 MHz through 2.2 GHz MHz UMTS)
- Supports both single and multi-operator solutions
- Reduces operator's site acquisition costs and ongoing maintenance expenses
- Maximizes utilization of limited radio channels
- Scalable and reliable
- Flexible implementation
- External and remote OA&M capability

PRODUCT HIGHLIGHTS

ADC®

FlexWave™ Focus

FlexWave Focus meets challenges head on with an innovative, 3G-compatible optical broadband solution that extends network capacity quickly and at significant savings. FlexWave Focus can be used for single or multiple operators and is protocol and frequency independent.

In areas with high traffic demand, typical expansion requires a basestation, MSC resources, and a T1/E1 line. FlexWave Focus uses broadband optical technology to let you centralize radio resources at selected sites and distribute the signals to remote endpoints. By simultaneous broadcasting of all radio channels network efficiency can be increased by up to 30 percent.

Ease of Installation

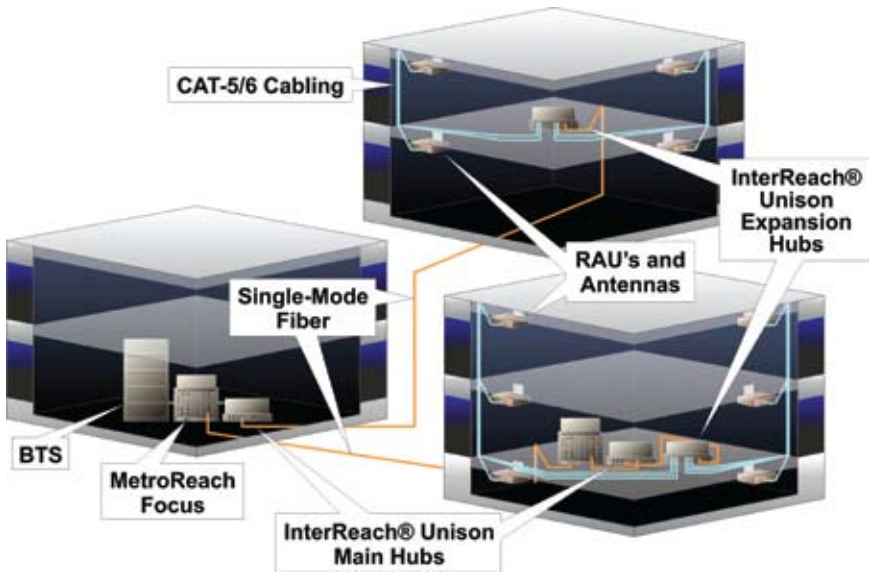
FlexWave Focus utilizes a modular, plug-and-play design that makes it easy to install. Because industry-standard connections and cabling are used, both installation time and cost are reduced.
The FlexWave Focus units have a small footprint, which requires only minimal "real estate"; they mount in standard 19" racks and the system requires standard AC power.

Components

There are two main FlexWave Focus components:

- Main Hub Assembly (MHA): The MHA is placed at a central location with a basestation or group of co-located basestations. The MHA houses modules that give users the flexibility to combine radio resources and simulcast select channels to select end points. These signals are distributed from the centralized MHA to the far end Remote Hub Assembly via broadband optical links (single-mode fiber) that can be up to 9.3 miles (15 kilometers) away from the MHA, thereby providing tremendous reach.
- Remote Hub Assembly (RHA): The RHA is placed where capacity is needed. The RHA accepts optical signals from the fiber, converts to RF, and then connects to an ADC solution such as InterReach Unison® or InterReach Fusion®

Both the MHA and the RHA fit in standard 19" rack mounts. The main and remote units also come in single unit stand alone modules for those applications which only require a single fiber link.



FlexWave™ Focus • 6/08 • 106092AE

Protocols

FlexWave Focus is broadband and protocol independent and supports all major wireless frequency bands and protocols worldwide, including:

- 800 MHz, 850 MHz, 900 MHz, 1800 MHz, 1900 MHz, and 2100 MHz

And all protocols, including:

- Voice protocols: AMPS, CDMA, GSM, iDEN, TDMA
- Data protocols: CDPD, EDGE, GPRS, WCDMA, CDMA2000 and Paging

Management Tools

Alarm Report Monitor
The Alarm Report Monitor (ARM2000) monitors the alarm contacts on the FlexWave Focus Modules and communicates the alarms to a centralized network management system using dial-up modem connections, over the public switched network (PSTN). Each ARM2000 can monitor major alarms for up to sixteen collocated devices.

AdminManager
The AdminManager software runs on a PC/laptop and is used to configure, maintain, and monitor FlexWave Focus systems that are connected to an Alarm Report Monitor unit. Connected directly to a system, you can access the Installation Wizard which lets you configure a newly installed system, or you can access the Configuration & Maintenance Panel which lets you query system status, configure a newly added or swapped unit, or change system parameters. Connected remotely, you can use the AdminManager to query system status via a read-only Configuration & Maintenance panel.

6/08 • 106092AE

PRODUCT HIGHLIGHTS

Website: www.adc.com

From North America, Call Toll Free: 1-800-366-3891 • Outside of North America: +1-952-938-8080

Fax: +1-952-917-3237 • For a listing of ADC's global sales office locations, please refer to our website.

ADC Telecommunications, Inc., P.O. Box 1101, Minneapolis, Minnesota USA 55440-1101

Specifications published here are current as of the date of publication of this document. Because we are continuously improving our products, ADC reserves the right to change specifications without prior notice. At any time, you may verify product specifications by contacting our headquarters office in Minneapolis. ADC Telecommunications, Inc. views its patent portfolio as an important corporate asset and vigorously enforces its patents. Products or features contained herein may be covered by one or more U.S. or foreign patents. An Equal Opportunity Employer

106092AE 6/08 Revision **© 2008 ADC Telecommunications, Inc. All Rights Reserved**