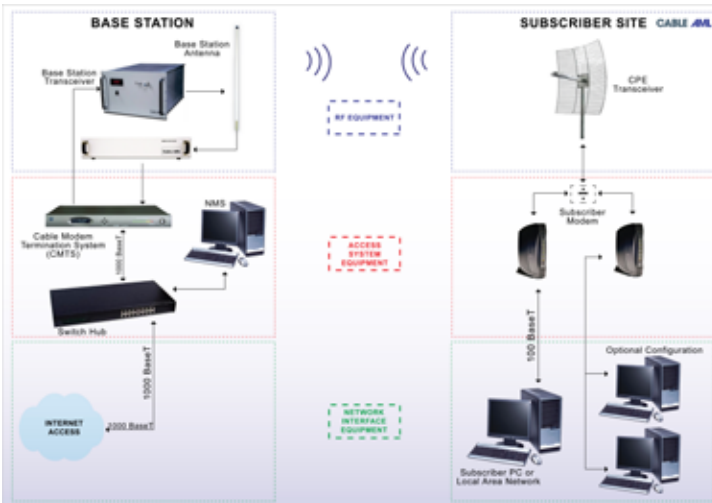


BWA-2002 POINT TO MULTIPOINT WIRELESS SYSTEM FOR THE LICENSED 2.5 GHZ BAND

- Provides Wireless Internet Access to over 2,000 subscribers per base station
- Throughput of up to 600 Mbps
- Distance of up to 40 Kilometers
- Operates in Licensed 2.5-2.7 GHz Band
- Omnidirectional 360-degree Base Station coverage available
- Can be integrated with Multichannel Digital Video for “Triple Play” Service



PRODUCT APPLICATION:

The BWA-2002 System is a high-capacity wireless Internet system designed to provide “last mile” Internet service to commercial and residential subscribers within an area of up to 40 Km radius from the base station.

The point-to-multipoint system provides a competitive alternative to wired systems such as fiber, cable or DSL.

Operating in the licensed frequency bands from 2,5 to 2,7 GHz, the system provides reliable wireless broadband multipoint connectivity to thousands of subscribers within a single cell.

Designed for professional ISPs, the BWA-2002 system is modular and available in several different configurations depending on traffic volume requirements and available bandwidth.

The system is based on the DOCSIS protocol: it incorporates standard DOCSIS Base Station CMTS (Cable Modem Termination System) and subscriber modem equipment as well as standard DOCSIS-compatible SMS (Subscriber management Software) systems.

QoS features are fully integrated within the CMTS, thus reducing the need for costly third-party QoS equipment. QoS classification is performed on up to 8,000 downstream and 8,000 upstream flows. Operators can create QoS policies and service profiles applicable to a subscriber or groups of subscribers, resulting in the ability to implement end-to-end Service Level Agreements (SLAs).

The CPEs consists of a roof-mounted antenna + RF transmitter/receiver and an indoor modem connected to the outdoor unit by conventional coaxial cable.

The system is easy to install and maintain and has all the well known advantages of the DOCSIS access system, including multiple sources of modem equipment, retro-compatibility, modularity and upgradeability.

SYSTEM	
Downstream Frequency Range	2574 to 2690 MHz
Upstream Frequency Range	2500 to 2530 MHz
Downstream Data Throughput	580 Mbps/sector (64 QAM)
Upstream Data Throughput	100 Mbps/sector (16 QAM)
Service Cell Radius	40 Km
BASE STATION	
Indoor Base Station Modem Type	DOCSIS CMTS
Transceiver Downstream Output Power	Up to +37 dBm/channel
Transceiver Upstream Noise Figure	2.5 dB
Transceiver Input Frequency (Downstream Input from CMTS)	296 to 412 MHz
Transceiver Output Frequency (Upstream Output to CMTS)	12 to 42 MHz
Base Station Antenna Gain	11 dBi (Omnidirectional) or 16 dBi (90 deg Sector)
CUSTOMER PREMISES EQUIPMENT (CPE)	
Indoor Modem	DOCSIS CPE Modem
Outdoor CPE Transceiver RF Input Frequency	2574 to 2690 MHz
Outdoor CPE Transceiver RF Output Frequency (To DOCSIS modem)	296 to 412 MHz
Outdoor CPE Transceiver Input Frequency (from DOCSIS modem)	12 to 42 MHz
Outdoor CPE Transceiver Output Frequency	2500 to 2530 MHz
Outdoor CPE Transceiver Input Noise Figure	4.0 dB
Outdoor CPE Transceiver Downstream RF/IF Gain	30 dB
Outdoor CPE Transceiver Upstream Output power	+17 dBm
CPE Antenna Gain	18, 21 or 24 dBi parabolic grid
MECHANICAL / ENVIRONMENTAL	
Base Station Indoor equipment Temperature range	0 to 37 deg C
Base Station Power	110/220 VAC
CPE Transceiver Power	+15 to + 24 VDC, 8 Watt
CPE Transceiver Temperature	-30 to +55 deg C

¹ Specifications subject to change without prior notice.