

# DWU2200

## 802.11n Base Station Unit

### Wireless Connectivity

#### 5.15-5.875GHz



#### DESCRIPTION

The DWU2200 Series are low cost, high performance, outdoor high speed wireless broadband connectivity equipments that may be installed to transport data signals as Point to Point (PtP) configurations. Units operate in frequency combination spectrum of 5.15 to 5.875GHz, comply with 802.11a/n and are designed with Time Division Multiple Access (TDMA) MIMO scheme to **provide maximum throughput** without incurring the expense of leased lines or fiber runs. Featured are up to 450Mbps speed, Site Survey analyzing software tool, bandwidth control, 1000Mbps Ethernet port for POE with reset button, SNMP, firmware upgrade and secure Data Encryption. Built with UV stabilized, waterproof plastic enclosures, Series DWU2200 receive from up to 50Km distance, meet stringent specifications including temperature, humidity, voltage/transient protection, shock/vibration and are ideal for cost effective commercial and industrial wireless IP video surveillance installations.

#### FEATURES

- \* Wireless Base Station, 5.15 - 5.875GHz, 450Mbps
- \* CPE or Base Station Modes of operation
- \* Large Scale IP Cameras on Wireless Networks
- \* Wireless Drivers provide low Jitter and Latency  
Less than 3ms on 50Km with no performance loss
- \* Operate as Point to Point, Point to Multi Point
- \* MIMO/TDMA design: 20MHz spacing
- \* Support 802.11abg and 802.11n standards
- \* 20/40/60/80 MHz spacing on PtP
- \* Security - WPA2 AES Encryption
- \* 10/100/1000Mbps RJ-45 Ethernet Port for POE
- \* 2 SMA RF Connector External Antennas
- \* Link Status and Speed Indicators
- \* SNMP, Telnet SSH, PPTP and Web Management
- \* Site Survey Software Diagnostics Tool
- \* Firmware Upgrade via SSH / TFTP
- \* Bandwidth Control; Backup Settings via SSH
- \* Wind Survivability to 125M/h (200Km/h)
- \* 24VDC input and PoE adapter with Reset Button
- \* Solar Panel friendly 8.5W power consumption
- \* Compliance: IEC68, CE, FCC, ROHS

#### ORDERING INFORMATION

DWU2200-9 Wireless CPE/Base Station Unit, 1000Mbps Ports, 5.15GHz - 5.875GHz, 24VDC/POE

DWU16120-S Sector Antenna, 16dBi, Beamwidth: 137° (H), 118° (V), pole mount, RF jumpers  
DWU19120-S Sector Antenna, 16dBi, Beamwidth: 123° (H), 123° (V), pole mount, RF jumpers  
DWU2090-S Sector Antenna, 20dBi, Beamwidth: 90° (H), 85° (V), pole mount, RF jumpers  
DWU3055-D Dish Antenna, 30dBi, Beamwidth: 5° (H), 5° (V), pole mount, RF jumpers  
DWU3455-D Dish Antenna, 34dBi, Beamwidth: 3° (H), 3° (V), pole mount, RF jumpers



#### APPLICATIONS

- \* Homeland Security
- \* Metropolitan Scale Mesh Networks
- \* Petrochemical Industry Networks
- \* Corporate and Banking Systems
- \* WISP Access Networks
- \* Public Safety Access Networks
- \* Schools and Universities
- \* Government and Military
- \* Power Generating Plants
- \* Carrier Backbones & Extensions
- \* Traffic Surveillance & Management



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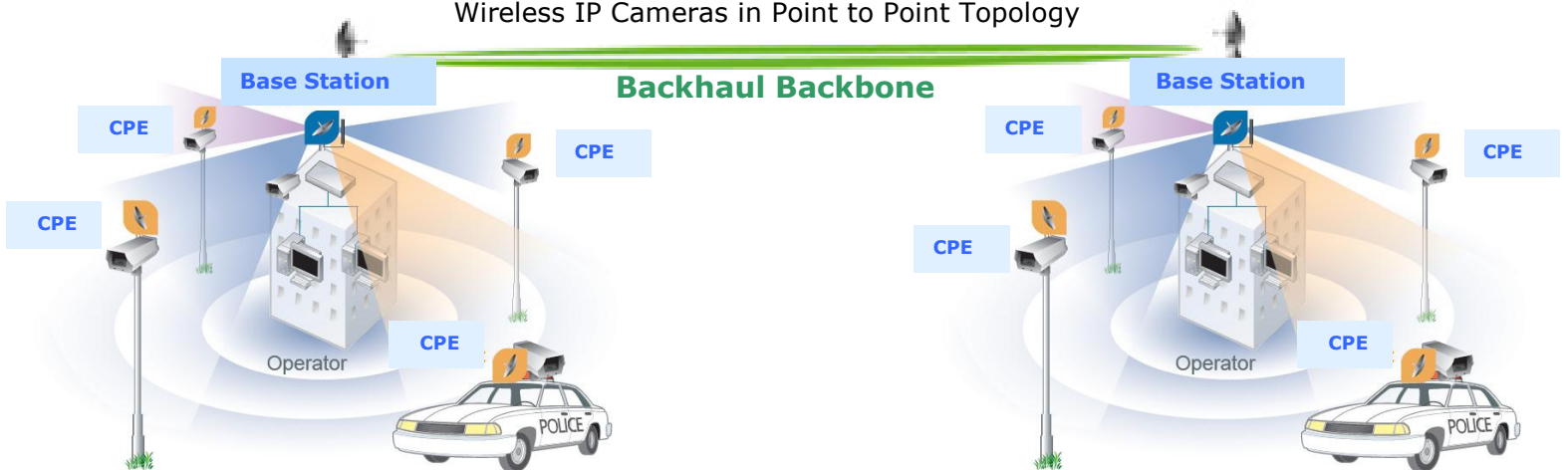
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Wireless IP Cameras in Point to Point Topology



Specifications	DWU2200		
Processor	Atheros MIPS 74KC, 720 MHz	RF Output Power	27dBm
Standards	IEEE 802.11a/b, 802.11n	Sensitivity	802.11a = -94dBm
Support Protocol	TCP/IP IPX NetBEUI		to -75dBm
Connection Rate Select Modulation	Up to 450Mbps in 801.11n 256QAM		802.11n = -96dBm
Communication	Point to Point, Point to Multi Point	to -75dBm	
DHCP	DHCP Server, DHCP Client	SSH Management	Yes
IP Auto Discovery	Yes	SNMP	Yes
Network Map	Yes	Telnet	SSH
Access Layer Users	50 recommended	Bandwidth Control	Yes
Spanning Tree	Yes	Mass Firmware Upgrade	SSH / TFTP
Power Control	Yes	Backup Settings	SSH
Link Status and Speed	Yes with LED Indicators	WEP Encryption	WPA2 AES only
Freq. Scan List	Yes	Radius	Yes
LAN	1 x 1000Mbps RJ-45	Diagnostics Tools	Site Survey Analyzing Software
IEEE802.iq VLAN	Yes	WPA1, WPA2	Yes
Antennas	Available Sector, Dish to 50Km distance 2 x RP-SMA, waterproof	QoS	Yes
Access Reboot	Yes	Dimension	162mm(L)×84mm(W)×37mm(H)
Access Control	Yes	Weight	0.5lbs/250g
Power Supply	24VDC/1A; 8.5W consumption (opt, 48V)	Operating Temp.	-40~80°C
PoE Adapter	Available with built-in Reset Button	Storage Temp.	-20~80°C
Frequency	5.150GHz - 5.875GHz	Humidity	5~95%
Channel Width	40MHZ, 20MHZ, others	Shock and Vibration	ETSI300-019-1.4

