



UNITIVITY

SYSTEM DESCRIPTION

Zinwave's UNtivity universal wireless platform provides cellular and public safety access services, delivering an end-to-end all-fiber solution on a single converged system within a building or venue. Zinwave's unique wideband architecture supports any service mix, protocol or modulation scheme from 150MHz to 2700MHz.

UNtivity comprises just a few core elements – a Hub, Service Module, Optical Module and Remote Unit. The system's network infrastructure is standard structured cabling, broadband single mode or multi-mode fiber. This means system design and installation is a simple and straightforward process, with minimal disruption to business operations.

The system supports a number of configuration topologies, making UNtivity extremely flexible. Small venues to large facilities and campuses can be easily and cost effectively supported. This, coupled with UNtivity's wideband attributes makes system growth for coverage of additional areas or buildings, or for adding support for new frequencies, wireless operators or services, easily achievable at a minimal cost.

SYSTEM

HIGHLIGHTS

Universal wireless solution supports multiple wireless services simultaneously

- Cellular
- Public Safety

Wideband capability in a single system

- 150MHz - 2700MHz

System simplicity and flexibility

- Only four basic system elements
- Single star or double star topologies

Standard enterprise cabling infrastructure

- Fiber (MMF/SMF), headend to antenna
- Easy to install, not disruptive
- Low cost

Flexible and future-ready

- No system hardware required to add new operators or frequencies later
- Supports both FDD and TDD



SYSTEM RF PARAMETERS

SYSTEM BANDWIDTH	150MHz TO 2700MHz	--
SYSTEM BAND GAIN FLATNESS	±2dB	IN ANY 40MHz BAND
WIDEBAND GAIN FLATNESS	±5dB	OVER FULL FREQUENCY BANDWIDTH

DOWNLINK

GAIN	25dB (NOM)	26dB MAX
RF INPUT POWER TO SERVICE MODULE	-25dBm (MIN) TO +15dBm (MAX)	WORKING INPUT POWER
RF INPUT LEVEL – ABSOLUTE MAX	+22dBm	MAX. AT SERVICE MODULE INPUT BEFORE DAMAGE OCCURS
RF OUTPUT POWER	+32dBm PEAK, +20dBm RMS	FOR SERVICES APPROVED TO FCC

UPLINK

GAIN	25dB (NOM)	26dB MAX
RF INPUT LEVEL – ABSOLUTE MAX	+10dBm	MAX. AT REMOTE INPUT BEFORE DAMAGE OCCURS
RF OUTPUT POWER	-10dBm	OUTPUT POWER OF SERVICE MODULE IN HUB

FIBER OPTIC SPECIFICATIONS

NUMBER OF OPTICAL PORTS	UP TO 8 TRANSCEIVERS IN MODULAR FORMAT ON HUB; 1 TRANSCEIVER ON REMOTE UNIT; SC CONNECTORS
WAVELENGTH	1310nm
FIBER TYPES SUPPORTED	SINGLE MODE (SM) CABLE 9/125 μm; MULTI-MODE (MM) CABLE 50μm AND 62.5μm
FIBER DISTANCE	5dBo OPTICAL LINK BUDGET, DISTANCE DEPENDENT ON FIBER TYPE & QUALITY
LASER SAFETY CLASSIFICATION	CLASS 1

CONNECTIVITY

HUB UNIT	SERVICE CONNECTION N-TYPE FEMALE CONNECTORS (BACK OF UNIT) OR 4.3-10 MINI DIN CONNECTORS HUB INTERCONNECT (PRIMARY TO SECONDARY) FIBER SC DUPLEX CONNECTORS* REMOTE UNIT CONNECT FIBER SC DUPLEX CONNECTOR*
REMOTE UNIT	ANTENNA CONNECTION 2 N-TYPE FEMALE CONNECTORS OR 4.3-10 MINI DIN CONNECTORS HUB CONNECTION FIBER SC DUPLEX/POWER CONNECTOR*

*PATCH CORDS ARE REQUIRED AND CAN BE SUPPLIED WITH ANY REQUIRED CONNECTOR TYPE

PHYSICAL, ELECTRICAL & ENVIRONMENTAL SPECIFICATIONS

	HUB UNIT	REMOTE UNIT
DIMENSIONS WIDTH / DEPTH / HEIGHT	17.5" (444 mm) / 17.08" (430 mm) / 5.2" (132 mm) (3U)	12.12" (308mm) / 2.63" (67mm) / 8.6" (220mm)
WEIGHT	33.3 LBS (15.10 KG) FULLY POPULATED	5.73 LBS (2.6 KG)
ELECTRICAL DEPENDENT ON CONFIGURATION	110 / 240V, 50/60Hz 50-150W OR 48V DC 50W	-48v DC FROM PSU OR 12v DC FROM AC SOURCE
OPERATING TEMP AMBIENT NON-CONDENSING	-5 TO +45 °C (23 TO 113 °F)	0 TO +50 °C (23 TO 122 °F)

REMOTE UNIT IS A SELF-CONTAINED METALLIC ENCLOSURE APPROVED FOR USE IN ENVIRONMENTAL AIR SPACE

STANDARDS & APPROVALS

EMC REGULATORY & SAFETY REQT'S SAFETY	EN 55022/CISPR22; FCC PART 15 CLASS A; EUROPEAN EMC DIRECTIVE 89/336/EEC IEC 60950-1; UL 60950-1; UL 2043
LASER SAFETY	BS EN 60825-1:2003 SAFETY OF LASER PRODUCTS

ORDERING INFORMATION

TO LEARN MORE ABOUT UNIVITY OR TO FIND A ZINWAVE SALES REP, PLEASE VISIT OUR WEBSITE:

ZINWAVE.COM

CATALOG #	ITEM DESCRIPTION	CATALOG #	ITEM DESCRIPTION
302-1001	HUB (AC; PRIMARY OR SECONDARY)	302-1003	SERVICE MODULE (N-TYPE)
302-1101	HUB (DC; PRIMARY OR SECONDARY)	302-1003-M	SERVICE MODULE (4.3-10 MINI DIN)
302-1002	OPTICAL MODULE	302-1107	REMOTE UNIT (N-TYPE)
302-0017	RACK MOUNT CENTRAL PSU	302-1107-M	REMOTE UNIT (4.3-10 MINI DIN)