



FRONT VIEW



REAR VIEW

Primary Hub

The Primary Hub provides the direct (or via a point of interface) connection to wireless operators' or public safety source(s), converts RF signals to optical, and connects via fiber to either Secondary Hubs or Remote Units. The Primary Hub also provides Web GUI for DAS configuration, and GUI/SNMP for status monitoring. Alarming is provided via relays.

The Primary Hub features a unique internal service distribution matrix which provides flexibility in terms of routing supported

wireless services within a system deployment. The matrix allows specific operators or frequencies to be routed to the entire system or to designated parts of the system, depending on requirements.

A UNItivity 5000 system can range from a single Primary Hub and Remote (a 1-1 configuration) to multiple layers consisting of a Primary Hub, eight associated Secondary Hubs, and 64 Remotes (a 1-8-64 configuration). The Primary Hub is modular and supports up to four Service Modules and up to eight Optical Modules.

Service Module

Service Modules provide the connection to the wireless operators' or public safety source(s) or to a Point of Interconnect (POI). The Primary Hub supports four Service Modules. The modules are hot swappable units, allowing for either system maintenance or the addition of operators or frequencies without disrupting service.

Optical Module

Optical Modules provide a duplex fiber connection from the Primary Hub to a Secondary Hub or Remote Unit. Up to eight Optical Modules can be installed in a Primary Hub. They are hot swappable units, allowing for system maintenance or the addition of Secondary Hubs or Remotes without impacting service.



PRIMARY HUB SPECIFICATIONS

SYSTEM BANDWIDTH	150 MHz (MIN) TO 2700 MHz (MAX)	
GAIN CONTROL STEP RESOLUTION	1 dB	
DIMENSIONS W / D / H (MM)	17.5" (444) x 17.08" (430) x 5.2" (132) (3U)	
WEIGHT	33.3 LBS (15.10 KG) UNPACKED, FULLY POPULATED	
ELECTRICAL MAX LOADING	AC: 110/230 V, 50/60 HZ /80 W (MAX), 0.7A, 274 BTU/HR	
OPERATING TEMP AMBIENT NON-CONDENSING	-5 TO +45 °C (23 TO 113 °F)	
CONNECTIONS	ETHERNET (10/100 BASE-T), 2 ALARM RELAYS (DE-9F), 2 USB, RS232 (DE-9M)	

SERVICE MODULE SPECIFICATIONS

MAXIMUM NUMBER PER PRIMARY HUB	4	
RF INPUT POWER	-5 dBm (MIN) TO +15 dBm (MAX)	WORKING INPUT POWER
VSWR	1.5	
CONNECTIVITY	N-FEMALE	TX AND RX PER SERVICE MODULE
DIMENSIONS W / D / H (MM)	1.2" (31) x 4.8" (123) x 4.6" (116)	
WEIGHT	0.7 LBS (0.3 KG)	UNPACKED

OPTICAL MODULE SPECIFICATIONS

MAXIMUM NUMBER PER PRIMARY HUB	8	
OPTICAL LOSS PER LINK	UP TO 5 dBo	PRIMARY HUB TO REMOTE OR SECONDARY HUB TO REMOTE
OPTICAL TRANSMIT POWER	4.5 mW (MIN) TO -10 mW (MAX)	AUTO-CONFIGURED BY SOFTWARE
OPTICAL RECEIVE POWER	10 mW (MAX)	
RETURN LOSS	BETTER THAN 45 dB	FOR ALL FIBER CONNECTIONS IN THE SYSTEM
CONNECTIVITY	SC-APC DUPLEX	SINGLE MODE 9/125 μm FIBER ALL CONNECTIONS FOR OPTIMUM PERFORMANCE
DIMENSIONS W / D / H (MM)	1.2" (31) x 4.6" (117) x 4.6" (116)	
WEIGHT	0.6 LBS (0.28 KG)	UNPACKED

APPROVALS AND LISTINGS

EUROPE	CE MARKED FOR RADIO EQUIPMENT DIRECTIVE 2014/53/EU AND ROHS DIRECTIVES 2011/65/EC	
USA FCC	FCC CERTIFIED	
CANADA	INDUSTRY CANADA CERTIFIED	
SAFETY	IEC 60950-1; EN 60950-1; UL60950-1, ULE486578	
LASER SAFETY	IEC 60825-1:2007	

ORDERING INFORMATION

	CATALOG #	ITEM DESCRIPTION
TO LEARN MORE OR TO FIND A SALES REP, PLEASE VISIT OUR WEBSITE: ZINWAVE.COM	305-0001	PRIMARY HUB
	305-0002	OPTICAL MODULE
	305-0003	SERVICE MODULE (N-TYPE)

