

## UA115 04

## Fiber Optic DAS Master Unit

The Fiber Base Unit (FBU) for Distributed Antenna Systems (DAS) applications is especially tailored to provide a comprehensive and flexible coverage solution in complex coverage environments like underground areas, tunnels, stations and terminals. The FBU converts and reconverts RF signals to optical signals. The truly modular design of the FBU ensures a cost efficient solution for any DAS configuration. Configurable with up to six fiber optical nodes with WDM as an option, the FBU is intended to feed star, point-to-point and chain network configurations of fiber optical repeaters. The FBU is designed for mounting in a 19-inch rack system and the slot-in design of the modules ensures easy serviceability and reconfiguration. Remote control via IP and SNMP is available as an option for network supervision with Powerwave Netway Vision.

**ELECTRICAL SPECIFICATIONS**

Bandwidth	690-2200 MHz
Input Impedance	50 Ohm
Max Input RF Power	+36 dBm (+35 dBm composite)
Optical Transmitter Wavelength	1550 nm/1310nm
Optical Receiver Wavelength	1250 – 1600nm
Insertion Loss (min)	0.25 dB
Alarms	
Fault	RX and TX Alarms/Temperature/PSM Fault
External Alarm Inputs	3
Power Supply Options	100-230 VAC and 16-60 VDC
Power Consumption	< 50 W, depending on configuration
Supported RF Systems	2100UMTS, GSM1800, 2100AWS, 1900, 900i, 850, 800i, 700PS and D-block

**MECHANICAL SPECIFICATIONS**

Dimensions WxHxD mm (inches)	482.6 x 133.5 (3U) x 415 (19 x 5 x 16)
Weight	<7 (15)
RF Connectors	SMA Female
Optical Connectors	FC/APC

**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature	-30° to + 55° C (Ambient)
Ingress Protection	IP42

**APPROVAL AND TESTS**

Safety	-30° to + 55° C (Ambient)
Radio	IP42
Environment	EN 300 019 and GR-63-CORE
EMC	EN 301 489-1 and GR-1089-CORE



\*All specifications subject to change without notice. Please contact your Powerwave representative for complete performance data.