


2. OVERVIEW/SYSTEM DESCRIPTION

The AFL Channel Selective Cell Enhancer is a 2-way on-band repeater. Various models are available to cover frequency bands from 50MHz to 3000MHz. Its main sphere of applications is in urban areas where the topology is such that shadows occur in the propagation pattern (for example within large buildings, conference centres and tunnels, etc.,)

The Channel Selective Cell Enhancer is a 4-port device with direct connection to two antennas, a highly directional Yagi or similar aligned towards the base site (for the nine downlink channels) and a dedicated uplink antenna for the mobiles. The frequency bands that are passed by the Cell Enhancer are set as per the specific customer requirements.

AFL manufacture a wide range of Cell Enhancers, configured for each customer's specific requirements. Two basic physical variants are available, a rack mounted version to fit in a standard 19" rack and an environmentally sealed wall mounted version which requires no further enclosure.

The rack-mounted version is supplied in this instance in 5 shelf units. Each shelf/tray unit containing active modules has a 'D.C. on' indicator on the front panel and the PSU (in the downlink amplifier shelf) also has an 'A.C. on' indicator.

 Aerial Facilities Limited www.AerialFacilities.com Technical Literature	9 Way Channelised UHF Cell Enhancer Maintenance Handbook		
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