

Title (en)
WIRELESS COMMUNICATIONS STATION AND SYSTEM

Title (de)
DRAHTLOSEN KOMMUNIKATIONSEINHEIT UND SYSTEM

Title (fr)
STATION ET SYSTEME DE RADIOCOMMUNICATIONS

Publication
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Application
EP 97947850 A 19971215

Priority
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Abstract (en)
[origin: WO9827748A2] A wireless communications station comprising a base unit including a communications interface for communicating with plural wireless communications networks, a received communications combiner for combining received communications signals received from the plural wireless communications networks into a single radio frequency output, a transmit communications splitter for splitting previously combined transmit communications signals to be transmitted to the plural wireless communications networks into plural radio frequency outputs, at least one fiberoptic transmitter receiving the single radio frequency output and providing a corresponding optical output, and at least one fiberoptic receiver receiving an optical input and providing an RF output containing previously combined transmit communications signals, a plurality of remote units, each including plural antennas for communicating with communicators along plural wireless communications networks, a received communications splitter for splitting previously combined received communications signals from the base unit and supplying them to the plural antennas, a transmit communications combiner for combining transmit communications signals from the plural antennas into a combined radio frequency output, a fiberoptic transmitter receiving the combined radio frequency output and providing a corresponding optical output, and a fiberoptic receiver receiving an optical input and providing an RF output to the received communications splitter containing previously received transmit communications signals, a first optical fiber connecting each fiberoptic transmitter of the base unit with a corresponding fiberoptic receiver in a corresponding remote unit, and a second optical fiber connecting each fiberoptic transmitter of a remote unit with a corresponding fiberoptic receiver in the base unit.

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