

PHASED ARRAY RADIO FREQUENCY NETWORK FOR MOBILE
COMMUNICATION

ABSTRACT

5 Systems and methods according to one or more
examples are provided for routing wireless mobile
communication signals using a phased array communication
network. In one example, a system includes a plurality
of phased array antennas configured to receive an RF
10 modulated data packet. The RF modulated data packet
includes a header and payload data. A demodulator
circuit is provided to demodulate the header to identify
route information while maintaining the payload data in
RF modulated format. The phased array antennas are
15 configured to transmit a high bandwidth narrow antenna
beam comprising the RF modulated data packet in
accordance with the route information. Maintaining the
payload data in RF modulated format during the route
provides for high bandwidth and high data rate
20 transmission required of today's wireless mobile
communication networks.

Fig. 1