Nokia Siemens Networks
Flexi Multiradio Base Station
RF Module(FXxB) Description
This document provides the description of Flexi Multiradio RF Modules (FXxB). The figures give and idea of how the units would look like, the final appearance of the units might not be exactly the same as shown in the figures in this document.

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Contents

1. Flexi Multiradio BTS units ................................................................. 4
   1.1 Flexi RF Module Triple 90W ...................................................... Error! Bookmark not defined.
1. Flexi Multiradio BTS units

This section describes the Radio module Flexi Multiradio Base Station.

1.1 Flexi RF Module Triple 90W (FXEB, FXDB, FXCB)

FXxB is the 3-branch radio transceiver module. The module consists of three independent branches designed to transmit and receive Multicarrier signals of multiple radio technologies concurrently. Each branch within FXxB is completely independent of each other and can be separately shut down. There is a common baseband part for all three branches within the system modules.

- 1 RF module for 3-sector site, 18 carrier (3x6) capacity with integrated Duplex Filters
- 3 x 80W at antenna connector
- Available in 900, 850, and 1800 MHz
- FXDB (900 Band), FXEB (1800) and FXCB (850 band)
- Full band@ 900/850 and 35MHz TX and 60MHz RX bandwidth support @1800MHz
- Full band Filter

The BTS external and internal interfaces provided by FXxB are:

- 48 VDC input,
- External Alarm Interface min 4 pcs, connector compatible with FPA.
- Antenna interfaces 6 pcs; 3 pcs duplexed and 3 pcs RX div, embedded AISG2.0 supported
- Support for AISG 2.0 (only for 3G), Bias-T’s and VSWR measurement
- 3 RP3 01 OBSAI Interfaces, for System Module connectivity and RFM chaining
- 3 TX/RX Antenna Interfaces, 3 RX Diversity Antenna Interfaces
- 3 RX outputs for diversity sharing with co-sited BTS (Ultrasite/Flexi EDGE/BS2xx)
- External RET interface 1 piece in FXxB

![Figure 1: Flexi RF Module Triple 90W 900/1800/850](image)

The unit is 3U high, fits into Flexi 3U casing as well as any 19” rack and is available in 850 MHz (FXCB), 900 MHz full band (FXDB) and 1800 MHz (FXEB).