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Decoder Nokia 310T Manuale

Product DescriptionNokia Proprietary and Confidential. DraftThe information in this documentation is subject to change without notice and describes onlyThis documentation is intendedThe documentation has been prepared toNokia welcomes customer comments as part of the process of The information or statements given in this documentation concerning the suitability. capacity, However, NokiaNokia will, if necessary, explain issuesNokias liability for any errors in the documentation is limited to the documentary correction of This documentation and the product it describes are considered protected by copyrightNOKIA logo is a registered trademark of Nokia Corporation. Other product names mentioned in this documentation may be trademarks of their respectiveAll rights reserved.DraftThe product is marked with the CE marking and Notified Body number according to the Rules. These limits are designed to provide reasonable protection against harmfulThis equipment generates, uses and canHowever, thereReorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the Nokia Proprietary and Confidential. DraftDraftContents 5. List of tables 7. List of figures 9. About this document 13Base station system 15. Nokia MetroSite EDGE Base Station 16Building capacity with the Nokia MetroSite EDGE Base Station 19. Four TRX BTS with flexible sectoring and dual band operation 19. Chaining of Nokia MetroSite EDGE base stations 20. RF power and sensitivity for microcellular applications 21. Smooth capacity expansion 21. High network quality 21. Receiver diversity 21. Frequency hopping 22. Antenna solution 22. Telecommunication features 23. General Packet Radio Service GPRS 24. Enhanced General Packet Radio Service EGPRS 24. Easy and fast deployment 24. Installation 24. Commissioning with the Nokia MetroSite BTS Manager 25. Advanced operation and maintenance 27.http://globalvcc.com/ UploadFile/Images/hyundai-santa-fe-haynes-repair-manual.xml

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Expanded Chapter 7 to include 5W TRXs new Table 7. Added 5W TRX BTS power demand in Table 8. Included 5 W power Tables 12, 13, and 14. Version 3 update, 7 March 2001. Revised throughout to include EDGE and to remove 1W TRXs. CommentsVersion 3 update, July 2002Chaining feature and EGPRS descriptions added.Nokia Proprietary and Confidential. DraftDraftAbout this document. This document describes the hardware, software, and functions of the Nokia. MetroSiteTM EDGE Base Station BTS, including the 5W GSM TRX and 5W. Use this document as a reference for the followingNokia MetroSite EDGE Base Station features. Nokia MetroSite EDGE Base Station applications. Nokia MetroSite EDGE Base Station software. Nokia MetroSite BTS Manager. Nokia MetroSite EDGE Base Station general function, construction andNokia MetroSite EDGE Base Station technical data. Nokia MetroSite EDGE Base Station design standards. Note. Some products referred to in this document, such as Nokia MetroHubTM. Transmission Node, Nokia FlexiHopperTM Microwave Radio, and Nokia. MetroHopperTM Radio, may not be available in certain markets.Nokia Proprietary and Confidential. DraftDraftIntroduction to the Nokia MetroSite. EDGE Base Station. This chapter describes the base station system BSS and the Nokia MetroSite. EDGE Base Station generally. In general terms, base stations perform the radio function for the base stationStation is connected to a transmission node such as a Nokia MetroHub. Transmission Node or directly to the base station controller BSC via the AbisThe BSC is further connected to the mobile switching centre MSC and to the Nokia Proprietary and Confidential. DraftAbis. Abis. Air interfaceFigure 1.Nokia MetroSite EDGE Base Station. The Nokia MetroSite EDGE Base Station is a complete, allclimate base. Both omni and sectoredThe smallsized Nokia MetroSite EDGE Base. Station cabinet accommodates up to four transceiver units TRXs. The Nokia MetroSite EDGE Base Station can be fitted with 5W GSM TRXs or.

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The introduction of EDGE requires EDGE capable TRXs. EDGE also requires. CX 3.2 software or later to be available at the BSC.DraftFigure 2. Nokia MetroSite an ideal solution for dense, urban

environment. The Nokia MetroSite EDGE Base Station is the core element in the Nokia. MetroSite Capacity Solution, which comprises complete sites equipped with. BTSs, transmission equipment, and auxiliary equipment. However, the Nokia. MetroSite EDGE Base Station can be integrated into other mobile networkThe optimised RF performance, the versatile installation options, and the flexibleConsequently, the Nokia MetroSite EDGE Base Station is an ideal solution forNote. For more information on the Nokia MetroHopper Radio, see the Nokia. MetroHopper Product Overview.Nokia Proprietary and Confidential. DraftIn order to ensure a high guality of calls, the Nokia MetroSite EDGE Base StationDue to its compact size, low weight, and high level of integration, the Nokia. MetroSite EDGE Base Station is fast and easy to install, either indoors orBoth wall and pole installations are Base Station can be installed at optimal locations. The plugin construction of the. Nokia MetroSite EDGE Base Station also provides great flexibility when, forIn addition to its other versatile and advanced properties, the Nokia MetroSite. EDGE Base Station is designed for easy commissioning. This has been achieved The Nokia MetroSite EDGE base station's size and ease of deployment help the The fast startup and DraftNokia MetroSite EDGE Base StationThis chapter describes the technical properties of the Nokia MetroSite EDGE. Base Station that contribute to. Microcellular capacity. Network quality. Data services. Deployment. Operation and maintenance. A description of the advanced telecommunication features is also presented here. A detailed description of technical features supported by the Nokia MetroSite. EDGE Base Station can be found in the Feature Descriptions document deliveredFor a list of Nokia.

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MetroSite EDGE Base Station properties, see also Chapter 8 in this document.Base Station. The features described in this section accommodate the efficient building of One Nokia MetroSite EDGE Base Station incorporates up to four TRXs and thusEvery TRX has its own antenna connector. Every TRX also incorporates a duplexConsequently, the maximum number of sectors forNokia Proprietary and Confidential. DraftThe dual band feature enables the operator to configure any sector to operateMore information on the coverage areas created with different sectoring optionsNote. The term "cell" is used in the network management system NMS context, Internal bus and Abis chaining are both possible with the Nokia MetroSite EDGE. Base Station. For more information on Abis chaining, refer to Section 4.2. To further increase the capacity expansion possibilities, Nokia MetroSite EDGEChaining is done by extending the BTS internal buses through the extensionEach BTS is connected to the next BTS in the chainOnly one of the BTSs the master BTSOne BTS acts as the master BTS, in which the master TRX of the chain is located. However, each BTS has a dedicated TRX to control the heating and coolingThe chain can be commissioned in various diversity configurations. For example, The Nokia MetroSite EDGE Base Station can also be connected to a Nokia. MetroHub Transmission Node. In this case, the BTS cabinet must incorporate aDraftThe RF performance of the Nokia MetroSite EDGE Base Station is suitable forThe maximum. RF power of the Nokia MetroSite EDGE Base Station transmitter is 5 W at the Station in EDGE modulation mode is 3.2 W. The RX sensitivity is better than 106 dBm. The output power and the receiver sensitivity of the Nokia MetroSite. EDGE Base Station, together with the use of surrounding buildings to limit the The dynamic power level range of the transmitter and the static broadcast controlTable 1. Property. GMSK modulationStatic power level range BCCHStep sizeSmooth capacity expansion.

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As the operator's demand for capacity grows, additional TRXs can be installed toThe Nokia MetroSite EDGE Base Station increases the capacity of the networkThis sectionReceiver diversity also known as uplink diversity is available in the Nokia. MetroSite EDGE Base Station when two or more TRXs belong to the sameNokia Proprietary and Confidential. DraftMultipath propagation of the radio signal may cause local variations of signalTo minimise this effect, a spatial orAntennas are placed physically apart or they employ different polarisation so thatIt is probable that even if oneThe two separate paths are processed in the basebandDiversity can be enabled or disabled from the BSC. When diversity is employed,The Nokia MetroSite EDGE Base Station supports synthesised RF frequencyThe most significant property of frequency hopping is that it enables averaging ofFrequency hopping can beSynthesised frequency hopping enables each TRX to change frequency onIt is possible to use either a cyclic or random frequency hopping scheme asThe MetroSite antenna is a small and unobtrusive dual band antenna designed forIt is a directional twoportThis means that two TRXs canOther directional, omnidirectional and crosspolarised antennas can also be usedFurthermore, distributed antennaDraftWhen the Nokia MetroSite EDGE Base Station itself is installed inside aThe TRX test includes an antenna cable detection feature which, in most of theThe most important telecommunication features supported by the Nokia. MetroSite EDGE Base Station software are discussed in this section. The basicHalf rate speech coding. The use of half rate HR speech coding makes it possible to almost double theThis is achieved with theHalf rate coding enables the use. Enhanced full rate speech coding. Enhanced full rate EFR speech coding improves the voice quality in all channelSupport for data services.

The Nokia MetroSite EDGE Base Station supports a number of features that The most advanced of those features are dealt with High Speed Circuit Switched Data HSCD. This feature provides Internet, file transfer and facsimile. Nontransparent means that the data rate can be changed automatically duringTransparent data uses aNokia Proprietary and Confidential. DraftGPRS is designed to make the GSM data services more compatible with LAN. WAN, and the Internet. In GPRS, the radio resources are used only when thereGPRS also provides immediateThe throughput is asThe Nokia MetroSite. EDGE Base Station supports GPRS coding schemes 1 and 2.EGPRS is built on top of GPRS to increase the data rate of GPRS by applying. EDGE modulation and increasing the Air interface throughput. The data rate of. GPRS is increased up to threefold with EGPRS. The Nokia MetroSite EDGE. Base Station supports EGPRS modulation and coding schemes MCS 1 to 7. EGPRS requires EDGE capable TRXs to be fitted in the BTS and CX 3.2This section describes the installation and commissioning procedures of the. Nokia MetroSite EDGE Base Station. The detailed taskoriented instructions canMetroSite EDGE Base Station Commissioning.Variety of installation possibilities. Due to its small size, unobtrusive appearance, low weight, and high level of The extended environmental performance of the. Nokia MetroSite EDGE Base Station enables installation indoors and outdoors, Mounting options are available for both wallThe Nokia MetroSite EDGE Base Station can also beFor more information on mounting positionsOperation. Delivery and installation procedure. The Nokia MetroSite EDGE Base Station is delivered to the site with the orderedShield units are installed in those unit slots that are notThe purpose of shield units is to provide protectionDraftAfter unpacking the delivery, some of the units can be removed from the BTS toUsually, removing only the TRXs makes the Nokia. MetroSite EDGE Base Station light enough to handle.

The Nokia MetroSite EDGE Base Station is then installed on a wall or a pole. InIn pole mountings, an additional pole mountingAfter the removed plugin units are reinstalled, the cabinet ground and powerThe next step is to connect the diversity cables,Then the BTS is powered up andFinally, the lock and the cover are installed to the BTS.Nokia MetroSite BTS Manager is a PCbased tool which includes aAutodetection. The BTS software includes an autodetection feature which identifies the BTSThe system data is replicatedNo external measuring devices are needed for BTS commissioning tests. The taskoriented instructions for each step can be found in Nokia MetroSite. EDGE Base Station Commissioning document.Nokia Proprietary and Confidential. DraftFigure 3. Nokia MetroSite BTS Manager Commissioning Wizard. Manual commissioning. Before the commissioning at the BTS site can be started, the following tasks mustThe LAPD links must be created at the BSC. The PCM port at the BSC must be set to active. The commissioning procedure performed on site with the Nokia MetroSite BTS. Manager includes the following steps. Transmission configuration.

Checking alarms and EACs. Running the tests. Creating the BTS commissioning report. In the near future, the use of the Site Configuration File SCF will considerablyThe Nokia MetroSite BTS Manager automatically produces a commissioningDraftMetroSite EDGE Base Station are described in this section. During operation, the Nokia MetroSite EDGE Base Station is managed remotelyOne of the TRXs is configured as the master TRX of the BTS. Physically there isIn addition to theConsequently, there is no need for a dedicated pluginFor more information refer to Section 6.1.2. TheAlarm diagnostics. The Nokia MetroSite EDGE Base Station features a BTS diagnostics system thatA detailed description of the Nokia MetroSite. EDGE Base Station alarms can be found in the software release documentation.

The alarm diagnostics system filters out spurious alarms, reporting only those The alarms are addressed to theIn the case of a mains power failure, the Nokia MetroSite EDGE Base StationTRX test. The TRX test is a multipurpose test designed for testing the total performance of the test can be run locally from. Abis connection is established. Locally, the TRX test is usually performed duringNokia Proprietary and Confidential. DraftThe TRX test covers all functions between the Abis and Air interfaces digital and. RF parts, antenna cable detection, RX sensitivity, and TX level. The main reasonThe test utilisesThe test can be used as an. RF performance supervision test when performed according to a regular schedule. For more information on the TRX test refer to the Software Release Binder. If additional battery backup is needed, the Nokia MetroSite Battery Backup unitThe Nokia MetroSite Battery Backup provides oneW. The Nokia MetroSite Battery Backup is an external unit with the sameFor more information on Nokia MetroSite Battery Backup, refer to Nokia. MetroSite Battery Backup User Manual. The Nokia MetroSite EDGE Base Station operates in the ambient temperaturesFigure 4. Temperature management diagram. Nokia Proprietary and Confidential. DraftThe BTS has a cooling fan and builtin heaters to provide a smooth temperatureThe BTS software controls the heating and cooling to provideHeating and cooling areThe heater elements are located inside the transceiver and transmission units. When the BTS starts up in an extremely cold environment, the units are warmedThe fan unit generates the cooling air flow inside the BTS. The fan unit has 16If the temperature of any unit rises too high, due to a broken fan unit or too hotSimilarly, ifDuring operation, the master TRX starts the heating process if the internalNokia Proprietary and Confidential. DraftDraftApplications. This chapter describes the typical applications of the Nokia MetroSite EDGE.

Base Station including the transmission alternatives. Base Station. The Nokia MetroSite EDGE Base Station can be used for building capacity inIt can also beFigure 5.Roadside coverage with the Nokia MetroSite EDGE Base Station. DraftEfficient frequency reuse requires that the size of the coverage area cell beEDGE Base Station can be used to limit the cell size and shape in an urbanMicrocells built with the Nokia MetroSite EDGE Base Station. The Nokia MetroSite EDGE Base Station can be sectored freely. A sectorThe maximum number of TRXs in one sector isAt the BSC, one of the slave TRXs is by default defined as the BCCH TRX. The. BCCH TRX the most likely TRX to need replacement and a slave TRX can belf desired, the BCCH can beBy using the different sectoring possibilities provided by the Nokia MetroSite. EDGE Base Station and by directing the antennas, different types of coverageThe actual shape of the coverage areas varies depending onDraftTRXs from different sectors can be connected to one antenna. The followingIn order to employ diversity, it is most feasible toCoverage patternBTS configurationAntennas directed to form one coverage areaFour TRXs in one sector, single band configuration. With dual band antennas, such as the MetroSite antenna, overlappingNokia Proprietary and Confidential. DraftFigure 8 shows schematically the coverage areas created with a BTS that has four. The antennas areCoverage patternBTS configuration. TRXsAntennas directed to form two coverage areasThe antennas are directed to the same direction. Diversity can also be utilised in this type of DraftBTS configuration. Coverage patternAntennas directed to form one coverage area includingThe Nokia MetroSite EDGE Base Station can be used to build fillin coverage inIn these cases, itNokia Proprietary and

Confidential. DraftStation. This section describes the transmission topologies that can be built by using theMetroHub Transmission Node.

For more information on the largerThe transmission unit takes care of the transmission between the Nokia MetroSite. EDGE Base Station and the BSC through the Abis interface. The transmission. The FC RRI and FXC RRI transmission units are used with Nokia MetroHopper. When EDGE transmission is being used, the FC type transmission units are notGranularity refers to the number of bits connected into a specific direction in the More information on transmission unit alternatives canExamples of transmission topologies built with different transmission units areDepending on the type of transmission unit, it is possibleStar connection C and D in Figure 10; with the radio transmissionLoop connection E and F in Figure 10. DraftFXC RRI transmission unit. Transmission nodeFigure 10.Nokia Proprietary and Confidential. DraftFurthermore, the Nokia MetroSite EDGE Base Station can be directly connectedLocally, the transmission configuration is managed with the Nokia MetroSite. BTS Manager. Information on how to create different transmissionNote. Since EDGE can carry higher data rates than GSM, the specification of theDraftNokia MetroSite EDGE Base StationThis chapter describes the Nokia MetroSite EDGE Base Station software SWGenerally, the Nokia MetroSite EDGE Base Station is managed remotely fromThe Nokia MetroSite EDGE Base Station is delivered to the customer with the. SW preinstalled in order to support rapid deployment of the BTS. The Nokia. MetroSite EDGE Base Station SW is to a large extent based on the SW for theStation SW makes it possible to upgrade the BTS online without interrupting the. BTS operation. Also, the number of alarms sent from the BTS to the BSC isThe Nokia OSS incorporates a full range of functions from fault, performance, MetroSite EDGE Base Station. The Nokia MetroSite EDGE Base Station can store two SW packages in its nonvolatile memory.

The SW can be loaded to the BTS either locally from the NokiaThe BSC updates the BTS SW packages if they are different from the BSC SW. After downloading, new SW is activated by reset and the initialisation takes The BTS and its units can be reset separately for Nokia Proprietary and Confidential. DraftThe BTS startup procedure has been optimised to shorten the bootup time. NoAlarms generated by the Nokia MetroSite EDGE Base Station are radicallyOnly the unit level and. BTS level alarms are sent to the BSC. Correlation rules and fault diagnosticNokia MetroSite BTS Manager is primarily used to commission the BTS and BTS sectoring and TRX numbering can beDuring normal operationNokia MetroSite BTS Manager provides a graphical user interface, running in. Windows NT, Windows 95, and Windows 98 environments. The Nokia. MetroSite BTS Manager provides a commissioning wizard software to ease theInstructions on how to use the Nokia MetroSite. BTS Manager are given in a contextsensitive online Help. The system requirements for the Nokia MetroSite BTS Manager are detailed in. Table 27. Figure 11 shows an example of the Nokia MetroSite BTS Manager desktop withNokia Proprietary and Confidential. DraftFigure 11. Nokia MetroSite BTS Manager desktop. Nokia MetroSite BTS Manager is part of the Nokia SiteWizard SW package.When the Nokia MetroSite EDGE Base Station software is updated, it can beThe transmission unit software is downloadedMetroSite BTS Manager.Nokia Proprietary and Confidential. DraftThe BTS SW is loaded to the master TRX which in turn updates the software inThe Nokia MetroSite EDGE Base Station software can be downloaded as aThe activation ofHowever, the activation can be done. For more information refer to the Software Release Binders. The Nokia MetroSite EDGE Base Station software updates are delivered to the Nokia MetroSite BTS Manager is delivered on CDROM with Nokia SiteWizard. For more information on Nokia MetroSite EDGE Base Station SW, refer to Nokia.

MetroSite EDGE Base Station software release documentation.DraftGeneral function, construction and units. This chapter describes the general function, mechanical construction and pluginThe general principle of signalling between the network, the BTS and the Mobile.

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