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Installation and Operation Manual. For Firmware Version 1.5.1.X or higher. IMPORTANT NOTE The information contained in this document supersedes all previously publishedProduct specifications are subject to change without prior notice. Part Number MNCDM840 Revision 2. Errata A for MNCDM840 Rev 2. Comtech EF Data Documentation Update. Subject. Errata Part Number. PLM CO Number. CommentsERCDM840EA2 Errata documents are not revisedThe new information will be included in the next releasedRev Installation and Operation Manual. For Firmware Version 1.5.1.X or Higher. Part Number MNCDM840. Revision 2. All rights reserved. Printed in the USA. Comtech EF Data, 2114 West 7th Street, Tempe, Arizona 85281 USA, 480.333.2200, FAX 480.333.2161. This page is intentionally blank.Related Documents.xiii. Conventions and References. xiii. Patents and Trademarks.xiii. Warnings, Cautions, and Notes.xiii. Examples of MultiHazard Notices.xiv. Recommended Standard Designations.xiv. Safety and Compliance. xiv. Electrical Safety and Compliance.xiv. Electrical Installation.xiv. Operating Environment. xv. CE Mark. xvii. Product Support. xvii. Comtech EF Data Headquarters. xvii. Warranty Policy. xviii. Limitations of Warranty. xviii. Exclusive Remedies. xixCDM840 Remote Router. Table of Contents. Revision 2CDM840 Remote Router. Table of ContentsCDM840 Remote Router. Revision 2This manual provides installation and operation information for the Comtech EF Data CDM840. Remote Router. This is an informational document intended for the persons responsible for theRelated Documents. Comtech EF Data CTOG250 Comtech Traffic Optimization Gateway Installation and OperationPatents and Trademarks. See all of Comtech EF Datas Patents and Patents Pending at. Comtech EF Data acknowledges that all trademarks are the property of the trademark owners. Warnings, Cautions, and NotesCDM840 Remote Router. Preface.http://akumuliatoriai.com/userfiles/8v71ti-manual.xml

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Revision 2A REFERENCE directs the user to additional information about a task or theExamples of MultiHazard Notices. Recommended Standard Designations. The new designation of the Electronic Industries Association EIA supersedes Recommended. Standard RS designations. References to the old RS designations may be shown when depictingThe user should carefully review the following information. Safety and Compliance. Electrical Safety and Compliance. The unit complies with the EN 60950 Safety of Information Technology Equipment Including. Electrical Business Machines safety standard.CDM840 Remote Router. Revision 2Operating EnvironmentCommon technical requirements, and the Declarations of Conformity for the applicableEuropean Union Electromagnetic Compatibility EMC Directive. Interference Characteristics of Information Technology Equipment. Limits, and Methods of Measurement. Federal Communications Commission Federal Code of Regulation FCC Part 15, Subpart B.CDM840 Remote Router. Revision 2Use Type D connectors that have backshells with continuous metallic shielding.Operate the unit with its cover on at all times. Symbol. DescriptionNeutralleiterSicherung. International Symbols. Definition. Alternating Current. Protective Earth. Fuse. Chassis Ground. For additional symbols, refer to Warnings, Cautions and Notes listed earlier in this. This unit satisfies with exemptions the requirements specified in the European Union DirectiveEuropean Union Telecommunications Terminal Equipment Directive. In accordance with the European Union Telecommunications Terminal Equipment Directive. Network.CDM840 Remote Router. Revision 2Comtech EF Data declares that the unit meets the necessary requirements for the CE Mark. Product Support. For all

product support, please call. Comtech EF Data HeadquartersTempe, Arizona USA 85281CDM840 Remote Router. Revision 2Comtech EF Data products are warranted against defects in material and workmanshipDuring the warranty period, Comtech EF.http://xn--80aaxjbirnfk.xn--p1ai/images/artikles/8uhps-manual.xml

Data will, at its option, repair or replace products that prove to be defective. Repairs areFor equipment under warranty, the owner is responsible for freight to Comtech EF DataComtech EF Data is responsible forComtech EF Data will return the equipment by the same method i.e., Air, Express. Surface as the equipment was sent to Comtech EF Data. All equipment returned for warranty repair must have a valid RMA number issued priorComtech EF Data stronglyComtech EF Data Corporation's obligations under this warranty are limited to repair orLimitations of Warranty. The warranty does not apply to any part of a product that has been installed, altered,The warranty does not apply to any product or parts thereof where the serial number or theThe warranty does not cover damage or loss incurred in transportation of the product. TheThe warranty does not cover any labor involved in the removal and or reinstallation ofCDM840 Remote Router. Revision 2A fixed charge established for each product will be imposed for all equipment returnedExclusive Remedies. Comtech EF Data Corporation's warranty, as stated is in lieu of all other warranties,Comtech EF Data Corporation's products, the aforementioned warranty, and shallThe remedies provided herein are the buyer's sole and exclusive remedies. Comtech EF. Data shall not be liable for any direct, indirect, special, incidental, or consequentialCDM840 Remote Router. Revision 2Chapter 1. INTRODUCTIONFigure 11. CDM840 Remote Router. The CDM840 Remote Router Figure 11 is a pointtomultipoint router. It serves as the "spoke"FeatureHub Site. Typical Remote Site Cluster. Figure 12. Advanced VSAT Series Network Topology Example. Comtech's Advanced VSAT Series group of products Figure 12 are designed to support latencysensitive applications such as cellular backhaul over satellite, Universal Service Obligation USOCDM840 Remote Router. Introduction. Revision 2Ethernet FE interface, and provides WAN bandwidth optimization. It also features integrated.

VersaFEC, a patented system of shortblock codes that provide maximum coding gain withSect. 1.4 CDM840 Specifications. CDM840 Functional Description. The CDM840 Remote Router. Transmits VersaFEC interoperable with Comtech EF Data's CDD880 MultiReceiver. Router. The receive side supports DVBS2 operation at LBand up to 62 Msps, and isFeatures a high performance processor and a realtime operating system RTOSRuns on an embedded operating system in nonvolatile Flash memory. It does not haveSupports reception and transmission of IP data over satellite links via two fundamentallyThe IF interface provides a bidirectional link with the satellite via the uplink andThe data interface is a bidirectional path that connects the customer's equipmentAll terrestrial data is connected. Includes support for ACM Adaptive Coding and Modulation and CCM Constant CodingCCM allows operators to define groups of remotes having different modulationCDM840 Remote Router. IntroductionRevision 2MODCOD as the environmentally conditions change to maintain QEF Quasi Error. Free operation. On the Tx transmit side The return modulator transmits IP datagrams and is compatible with. Comtech EF Data's CDD880 MultiReceiver Routers located at a hub site. In the FEC encoder, the data is differentially encoded, scrambled, and then VersaFECencoded. Following the encoder, the data is fed to the transmit digital filters, which perform spectralThe resultant I and Q signals are then fed to the BPSK, QPSK, 8QAM,On the Rx receive side The DVBS2 demodulator supports enhanced GSE decapsulation andDVBS2 Receiver The CDM840's demodulator supports DVBS2 QPSK, 8PSK, 16APSK and 32APSK demodulation up to 62 Msps, with receive data rates up to 167 Mbps depending on theIn DVBS2 operation, the receiver operates in the CCM mode. The receiver automatically detects. Sect. 1.3 CDM840 Features. Sect. 1.4 CDM840 Specifications. Appendix B. FEC FORWARD ERROR CORRECTION OPTIONS.

Monitor and Control Interfaces The unit is managed through multiple interfaces providingSect. 6.3

ETHERNETBASED PRODUCT MANAGEMENT SNMP MIB II and. Private MIB. Sect. 6.4 ETHERNETBASED PRODUCT MANAGEMENT Web Server HTTP. Interface. Chapter 7. SERIALBASED REMOTE PRODUCT MANAGEMENT. Onsite Firmware Updates Field update of the operating system firmware is possible throughChapter 4. UPDATING FIRMWARE. Onsite Operational Upgrades Field activation of softwarebased options is possible through. Comtech's FAST Fully Accessible System Topology Feature upgrade process. Chapter 5. FAST ACTIVATION PROCEDURE. CDM840 Remote Router. IntroductionPhysical Description. The CDM840 Remote Router is constructed as a 1RUhigh rackmounting chassis. Handles atThe unit can be freestanding ifSect. 2.1 Installation into a Rack Enclosure. Dimensional Envelope. Figure 13. CDM840 Dimensional Envelope. IntroductionThe CDM840 Remote Router front panel Figure 14 features eight LightEmitting Diode LEDRx TRAFFICGreen. Amber. Red. Off. Green. Green solid. GreenAmber. GreenOff. No Unit Faults or Alarms. No Unit Faults, but an Alarm exists. A Unit Fault exists Example PSU fault. There is a Stored Event in the log, which can be viewed from the Web Server. There are no Stored Events. The Unit is On Line, and carrying traffic.A Test Mode is selected. There is no Test Mode currently selected. The Transmitter Carrier is On. A Fault exists that causes the unit to turn off the carrier. The Transmitter Carrier is Off. No Tx Traffic Faults, no packets. No Tx Traffic Faults, blinks when a packet is being transmitted to the satelliteA Tx Traffic Alarm exists. Tx Traffic has a Fault. A Tx Traffic Fault exists. No Rx Traffic Faults demod and decoder are locked, everything is OK. No Rx Traffic Faults, blinks when a packet is being received from the satelliteRx Traffic has an Alarm. Rx Traffic has a Fault. An Rx Traffic fault exists the demod may still be OK. Traffic Ethernet is connected, but no traffic exists.

http://emphatiqsolutions.com/images/candy-construction-software-manual.pdf

Ethernet activity detected. Traffic Ethernet is not connected. IntroductionIt is therefore imperative that the unitSect. 3.2 CDM840 Cabling Connections. Sect. 3.3 CDM840 Grounding and Power Connections. External cables are attached to connectors provided on the rear panel of the unit Figure 15.The unit provides the following standard interfaces. Data Interfaces. Ethernet traffic.IF Interfaces. LBand 950 to 2150 MHz. Power Interface. IntroductionThe following Power Interface Options are available from Comtech EF DataThe following Rear Panel Rack Support Brackets Kits are available from Comtech EF Data. KT0000168 4" RearMounting Support Brackets Kit. KT0000195 10" RearMounting Support Brackets Kit. Sect. 2.2.1 Installing the Optional RearMounting Support Brackets Kit. IntroductionItem. DescriptionSTORED EVENT Amber. ONLINE Green. TEST MODE Amber. Front Panel. DB9F EIA232 connector for serial remote monitor and control. DB9M EIA232 connector for 11 or 1N redundancy switch operation. DB15M connector for Form C unit alarms. Dimensional EnvelopeTemperature. Operating. Storage. HumidityOperating. Frequency. Tx. Impedance. Power supply. Rx. RxDC HW Option 48V 36V to 60V DC. Transmit PowerReference 10 MHz. Power SupplyReference 10 MHz. Voltage. CurrentRx Monitoring. Adaptive EqualizerAcquisition Range. Revision 2Description. Supported Protocols. Description. Item. Outbound Hub to Remote. Return Remote to Hub. Data Rate. Symbol RateModulation and Code Rates. RolloffEncapsulation. Enhanced GSE. Streamline Encapsulation SLEItem. VersaFEC CODEC BERVersaFEC CODEC BERVersaFEC CODEC BERDescription. For. Rate 0.488Rate 0.533 QPSKRate 0.631 QPSKRate 0.706 QPSKRate 0.803 QPSKRate 0.642 8QAMRate 0.711 8QAMRate 0.780 8QAMCDM840 Remote Router. VersaFEC CODEC BERMonitor FunctionsRate 0.780 16QAMRate 0.829 16QAMForCorrected Bit Error Rate 1E3 to 1E9. Signal Strength Indicator 060 dB range relative to maximum gain. Rate 0.853 16QAMStandard Assemblies. CEFD Item No.

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Where InstalledCartridge Fuse, 2.5A 250VAC 5x20mm Slow Blo fuse, 213In CDM840 chassisCEFD Item No.Power Supply. Power Supply. CDM840 Base 48V DC Chassis Assembly. Supply. RearMounting Support Bracket 4"Regulatory Compliance. EntityFCC Part 15 Subpart B. RoHS

Compliance. YesWhere Installed. In CDM840 chassis. In CDM840 chassisChapter 2. INSTALLATIONFigure 21. Unpacking and Inspecting the Shipment. The CDM840 Remote Router, its Installation and Operation Manual, and its power cord wereThis equipment contains parts and assemblies sensitive to damage by Electrostatic. Discharge ESD. Use ESD precautionary procedures when handling the equipment. Installation. Revision 2StepInstalling Into a Rack Enclosure. When mounting the CDM840 into a rack enclosure Figure 22It is therefore imperativeMake sure there is adequate clearance inside the enclosure, especially atFor information about custom rack enclosures, contact Comtech EF Data. Customer Support during normal business hours or visit Comtech EF Data's Web. The CDM840 CANNOT have rack slides mounted to the sides of the chassis.If there is any doubt, contact Comtech EF Data. Customer Support during normal business hours. Feature. Revision 2Rack Enclosure Threaded Front. Mounting Rail typical. Unit Front Panel. Usersupplied ScrewsMount the CDM840 in its assigned position in the rack enclosure. Use, as required. A standard rackmounted shelf. Usersupplied screws to secure the front panel to the rack enclosure threaded frontComtech EF Data's optional KT0000168 4" or KT0000195 10" RearMounting. Support Brackets Kit Figure 23. Revision 2Feature. DescriptionKT0000XXX Primary Rear Support Bracket Kit. Quantity. CEFD Part Number. DescriptionQuantity. DescriptionCDM840 Remote Router. Revision 2A medium Phillips screwdriver. An adjustable Crescent wrench. Follow these steps to install the Radynestyle chassis kit. Step. Revision 2Chapter 3. REAR PANELThe CDM840 Remote Router uses a number of different cables.

Each cable type is typicallyNot all of these operational interface types may be available with this product.Coupling Type. Connector Type. Plug. Jack. Bayonet. Threaded. Figure 31. Coaxial Connector Examples. Bayonet or Threaded. Rear Panel Connections. Revision 2Threaded Coupling Style The jack features external threads. The plug shell featuresConnection InstructionsThreaded Coupling Connections Engage the plug onto the jack threads, and then turnDo not overtighten theBNC plugs and jacks feature a Bayonet Coupling design.CDM840 Remote Router. Rear Panel ConnectionsExample. Chassis Receptacles. Female top. Male bottomFigure 32. DSubminiature Connector Examples. The connector pairEither chassis receptacle gender features two jack nuts for secure assembly of the cable plug toWhether its gender is male or female, the cable plug features two jack screws for secureThe jack screws may beCDM840 Remote Router. Revision 2Press firmlyDo not overtighten.Circular connectors are intended for weatherproof outdoor applications. The connector pairsFeature. DescriptionConnection Instructions Engage all of the alignment and lock featuresTo install the male connector into the female connectorThe plug for an RJ45 or RJ48 cable features a flexible tab. The RJ45 or RJ48This design configuration assures properConnection Instructions Press down the tab on the cable plug, and thenThe connection is complete when the tab. Rear Panel ConnectionsFigure 33. CDM840 Cabling Connections. The CDM840 rear panel connectors, shown here in Figure 33 provide all necessary externalThe table that follows summarizes theSect. Service Type Connector NameTerrestrial. Data Group. Utility Group. Connector Function. LBAND Rx. LBand Input. LBAND Tx. LBand OutputG.703 E1 InputG.703 E1 Output. RJ45 female. Ethernet interface IEEE 802.3ab. RJ45 femaleThe European EMC Directive EN55022, EN500821 requires using properly shieldedSee Sect. 3.

1 Cabling Connections Types for information about each connector typeCDM840 Remote Router. Rear Panel ConnectionsRef Des. Direction. Rx IF Signal, LBand. In. Name. Tx IF signal, L Band. Out. Terrestrial Data Connector Group. BNC femaleDirection. RJ45 female modular jack. The maximum Ethernet packet size is 1522 bytes including Ethernet headers andRear Panel ConnectionsConnector Type. The maximum Ethernet packet size is 1522 bytes including Ethernet headers andNameUse this interface for connection to an optional CEFD 11 or 1N Redundancy Switch. Table 31. REDUNDANCY Connector PinoutsDirection. Ground. Redundancy Out 1Redundancy Out 2Out. Rear Panel ConnectionsNameThis interface is used for EIA232 communications. It is intended for connection to an. Table 32. CONSOLE Connector PinoutsDirection. Reserved do not connect to this

pin. EIA232 Transmit Data. EIA232 Receive Data. Reserved do not connect to this pinRear Panel ConnectionsName. DirectionThe analog signal will be zero volts when the unit isWhen locked to a carrier the analog signal will be 1 volt forTable 33. ALARMS Connector PinoutsRear Panel ConnectionsChassis Ground InterfaceIt is therefore imperative that the unitFigure 34. CDM840 Chassis Ground InterfaceThe AC power interface provides the safety ground. Rear Panel ConnectionsDescriptionAC Power Specifications. Input PowerInput VoltageConnector TypeLine and neutral fusingFigure 35. CDM840 AC Power InterfaceTo apply AC power to the CDM840. First, plug the provided AC power cord female end into the unit. Then, plug the AC power cord male end into the usersupplied power source. Finally, switch the unit ON.