Dru 64 Manual

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Dru 64 Manual

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Digivance ICS Digital Expansion Unit Installation Instructions. Page 2. ADCP NumberThe DRU, shown in Figure 1, serves as the cellular user servicing unit for the Digivance ICS. The DRU consists of an electronic circuit board assembly that is mounted within a powdercoated sheet metal enclosure. The electronic circuit board assembly is not user replaceable. The DRU is designed for use within a noncondensing indoor environment such as inside aThe DRU is equipped with four integral mounting feet that allow it to be mounted on any flatA typical location for mounting the DRU would be aboveThe RF signal interface between the DRU and the cellular users is provided through anThe antenna may be orderedThe DRU is equipped with a small form factor LC type optical transceiver that provides aDepending on the application requirements, thePage 3. The DRU is equipped with a female RJ45 jack that provides a point for connecting a DCThe recommendedAny distance beyond 500. The DRU user interface consists of the connectors and the LED that are provided on the DRUThe DRU user interface points are indicated in Figure 2 and described in. Table 1.Table 1. Digital Remote Unit User InterfaceIndicates if the status of the DRU isRJ45 jack female. Used for connecting a DC power cable.LCtype opticalUsed for connecting the forward pathSMAtype coaxialUsed for connecting the antenna coaxialNote A detailed description of DEU LED operation is provided in the Digivance ICS. Installation and Operation Manual ADCP75110. Page 4Various antennas, shown in Figures 3 and 4, are available from ADC for use with the DRU. All antennas include a 6 foot 1.8 m long 50ohm coaxial cable equipped with SMA maleThe DRU is equipped with an SMA female connectorNote To comply with Maximum Permissible Exposure MPE requirements,

antennas mustFCC 47 CFR Part 2.1091.Page 5Figure 4. 1900 MHz DRU Antenna OptionsThe converter is a UL Listed stand alone Limited Power Supply LPS unitVac power cord is 6 feet 1.http://www.optus.ca/userfiles/cressi-mc7-manual.xml

8 m long and is provided with the converter. Page 6Installation of the DRU may proceed separately from theWhen the installation of the DRU is completed, refer toThe following tools are required in order to complete the procedures in this instruction. Box cutter. Pencil or scribe. Medium size flatbladed screwdriver. Pliers. Nonconductive probe 1900 MHz units only. Drill and assorted drill bits. Torque wrench for SMA connectors preset to apply 5 inchpounds of torque. The following materials are required in order to complete the procedures in this instructionWire ties. Page 7This subsection provides instructions for opening the shipping boxes, verifying that all partsUse the followingIf there are any damages, contact ADC. Telecommunications see Customer Information and Assistance section for an RMAThe 1900 MHz version of the DRU may be configured to operate at any one of four frequencyDRU frequency bandDo not use some other type of materialFigure 6. 1900 MHz DRU Frequency Band Selection. Page 8The DRU may be mounted on any flat vertical or horizontal surface. A slot is provided in eachThe fasteners must be provided by theWarning Wet conditions increase the potential for receiving an electrical shock whenTo prevent electrical shock, never installNote To insure that all optical connectors and transceivers remain dustfree during installation,DRU to the mounting surface.Note To ensure there is adequate air circulation for cooling, provide a minimum of 3Note In mounting situations where fiber, power, and coaxial cable passthrough holesTight bend radii can damage fiberPower cable cat 3 and 5Fiber optic cable twin leadAntenna coaxial cableIf planned cable diameters are greater than those listed, please consult with the cableObserve any additional instructions that mayPage 9Various types of antennas are available from ADC for use with the DRU.

All antennas includeEach type of antennaMount the antenna in the location specified in the system design andNote To comply with Maximum Permissible Exposure MPE requirements, antennas mustFCC 47 CFR Part 2.1091.The 800 and 1900 MHz ceilingmount omnidirectional antennas are designed to mount in the centerMount the ceilingmount omnidirectional antenna as shown in Figure 8 and asPage 10The 800 MHz ceiling mount hallway antenna is designed to mount in the center of longPage 11The 1900 MHz ceiling mount hallway antenna is designed to mount in the center of longIf the hallway has a hard ceiling, locate a pointNote Whether mounted from a tile rail or hard ceiling, the flat sides of the antenna mustPage 12Figure 10. 1900 MHz CeilingMount Hallway Antenna InstallationThe 800 MHz directional panel antenna is designed to mount vertically on one side of thePage 13The 1900 MHz directional panel antenna is designed to mount vertically on one side of thePage 14Figure 12. 1900 MHz Directional Panel Antenna InstallationThe 800 MHz 90 panel antenna is designed to mount vertically in the corner of the coveragePage 15The DRU is equipped with an SMA female connector for connecting the antenna cable. UseWarning Overtightening the SMA connector can break the solder joint between theTighten connector to specified torque value.Page 16The optical interface between the DRU and the DHU or DEU is supported by a small formOne side of theLaser radiationDo not look into the ends of any optical fiber. DoA protective cap orThis practice also preventsDHU or DEU. Note The procedures for routing the forward and reverse path optical links from the. DHU or DEU to the DRU are covered in either the Digivance ICS Installation and. Operation Manual ADCP75110, which is provided with the DHU, or the Digivance.

https://ayurvedia.ch/echo-pb-400e-manual

ICS Digital Expansion Unit Installation Instructions ADCP75111, which is providedMake sure the forward pathNote When viewing the DRU optical transceiver from the front, the forward path port isPage 17The DC power interface for the DRU is supported by an RJ45 female connector located onUse whichever of theUse the following procedure to connect the DC power cable when the DRU is

powered by the. DHU or DEU.Note The procedures for routing the DC power cable from the DHU or DEU to the DRUInstallation Instructions ADCP75111 which is provided with the DEU. Note The power cable maximum length is 500 meters 1,641 feet.Page 18Installation and Operation Manual ADCP75110 for the system turnup and test procedures.Use only theEquipment grounding is to ensure safe operation. Do notVerify converter is reliably grounded when installed.This indicates thatNote Early versions of the DRU use a steady red LED to indicate all major faultLater versions of the DRU use a blinkingInstallation and Operation Manual ADCP75110 for the system turnup and test procedures. Page 20To obtain any of these services by telephone, first dial the central ADCThe central number for calls originating in the U.S.A. or Canada is 18003663891. For callsSales Assistance. Extension 63000. Systems Integration. Complete Solutions from Concept to Installation. Network Design and Integration Testing. System TurnUp and Testing. Network Monitoring Upstream or Downstream. Power Monitoring and Remote Surveillance. Systems Operation. BCG Technical Assistance. Center. Extension 63475. Technical Information. Product Specification and Application. Training ProductSpecific. Installation and Operation Assistance. Troubleshooting and Repair. Product Return Department. Extension 63478Product information may also be obtained using the ADC web site at www.adc.com or byADC reserves the right to change the contents without prior notice.

In noThis disclaimer ofThis publication may be verified at any time by contacting ADC's Technical Assistance Center at 18003663891, extension. All Rights Reserved. Printed in U.S.A. Page 21PDF Version 1.2. Linearized No. Create Date 20010607 171050. Producer Acrobat Distiller 4.0 for Windows. Modify Date 20010607 1710500500. Page Count 21. It's constantly improving and developing. Both file upload and download are very convenient. Nevertheless, I like this one more than others. I believe the download here is faster, and there are no ads at all. Services Sync music, Manage music, Recover missing metadata, Record CDs Download MediaMonkey Now Buy MediaMonkey Gold Get Addons Never use any other conversion tool again. Find Music File Converter Mp3 Mp3 converter www.easypdfcombine.com Merge And Convert Files Into PDFs For Free With EasyPDFCombine App. Very solidly made from cast iron this stove comes in at 180kg you really do get a lot of cast iron for your money. The Dru 64 CB is built to last and built to burn use the right wood and you should be able to run this stove 24 hours a day without a problem. You can really get some long logs into the Dru 64 CB stove up to 500mm long. Loading is made easier by the addition of the handy side opening door. The Dru 64 CB gives out up to 11kW of heat 9kW nominal, and is a relatively narrow stove at only 650mm wide, but 750mm high. This means that you do not need a hugely wide fireplace opening to install the Dru 64 CB stove. The clever yet simple air supply system provides preheated air to the airwash system and to the tertiary air supply jets at the back of the firebox. This makes the Dru 64 CB very well suited to efficient woodburning wood burns best in a firebox well supplied with combustion air. The Dru 64 CB comes with an ashpan as standard, which makes ash removal neater and easy.

The 64 comes in a painted anthracite finish as pictured but there are enamelled colours available in ivory and majolica brown, although the brown is being discontinued. A multifuel version, the Dru 64 MF, is also available this has a thermostatic control set the heat output to the desired level and the control does the rest. In fact if you look at the 3d rotating Dru 64 there is a link below just click the little spinning cube this is the multifuel version. The multifuel option is not yet Ecodesign ready. Please ask a member of our team to explain the different lengths and types of flue component which you can pick from. Our moisture meter allows you test and measure that yourself. Each bag contains 16 logs and a log will burn for around an hour. A coffee log contains around 20% more energy than wood so they burn hotter and for longer than an ordinary log. They are produced in Cambridgeshire by biobean. We are calling her Bertha after the childrens cartoony program on the telly theme tune; bertha, lovely bertha, sometimes i think your a dream.. Thanks again for all the various help and

advice. Not Currently In Stock. Please enable Javascript and Cookies for continuing the shopping. Else you cant be able to successfully purcahse products. They are made from the toughest Norwegian cast iron and are designed to resist Scandinavian winters, when the stove burns all day long. A more comple te desc ription of the DRU along with the opera ting and maintena nce proc edure s is provided in the Digiva nce ICS Insta llation and Operati on Manual ADCP75110. The DRU is installe d in conjunc tion with the Digita l Host Unit DHU and the Digital Expansion Unit DEU. Digivance is a trademark of ADC Tel ecommuni cations, Inc. LC is a trademark of Lu cent Technologi es Inc. Admonishments Importa nt safe ty admonishme nts are used thr oughout this publica tion to warn of possible hazards to persons or equipment.

An a dmonishment ide ntifie s a possible hazard and then explains what ma y happe n if the hazard is not avoided. The admonishme nts — in the form of Dangers, W arnings, and Cautions — must be f ollowe d at all times. These warnings are flagged by use of the tr iangula r alert icon seen below, and are listed in desc ending orde r of severity of injury or damage and likelihood of occurrence. Danger Danger is used to indicate the presen ce of a hazard that will cause severe personal injury, death, or substantial property damage if the hazard is not avoided. War ning Warnin g is used to indic ate the pres ence of a hazard that can cause sever e personal injury, death, or substantial property damage if the hazard is not avoided. Caution Caution is used to indic ate the pres ence of a hazard that will or can cause minor personal injury or property damage if the hazard is not avoided. Related Publications Listed below are re la ted ma nuals and their publica tion numbers. Copies of the se publica tions can be order ed by contacting the ADC Techni cal Assista nce Ce nte r at 1800366 3891 extension 63475 in U.S.A. or Canada or 9529463475 outside U.S.A. and Canada. Title ADCP Number Digivance ICS Installation and Operation Manual 75110 Digivance ICS Digital Expansion Unit Installation Instructions 75111. The DRU consists of an elect roni c cir cuit boar d asse mbly that is mounte d within a powder coat ed sheet metal enclos ure. The el ectroni c circ uit board a ssembly is not use r replaceab le. The DRU is designed for use within a nonc ondensing indoor envir onment suc h as inside a building. All controls, indic ators, and conne ctors except the antenna c onnector are mounte d on the DRU front panel for convenient access. FRONT P ANEL MOUNTING FOO T EA CH CORNER 7.0 INCHES 178 mm 7.3 INCHES 185 mm 2.1 INCHES 53 mm 16420A Figure 1.

Digital Remote Unit The DRU is equipped with f our integra l mounting feet that a llow it to be mounted on any flat horizonta l or verti cal surface. A typical loca tion for mounting the DRU would be above ce iling tiles where the opti cal fiber and power cables can be co ncealed or on a wa ll. Slots are provided in the mounting feet for securing the DRU to the mounting surface. The RF signal inte rfa ce between the DRU an d the ce llular use rs is provide d through an extern al ante nna conn ected to a fema le SMA c onnector. The a ntenna ma y be order ed sepa rate ly from ADC. Several type s of antenna s with va rious patte rns are avail able. NonADC antennas may also be used with the DRU to meet various application requirements. The DRU is equipped with a sma ll form facto r LC type opt ical t ranscei ver that provides a point for connec ting the opt ical link cabl es. Depending on the applic ation re quire ments, the optical transceiver may be connected to either a DHU or a DEU. The DRU is equipped with a f ema le RJ45 jack that provide s a point for connec ting a DC power cable. Pow er to the DRU may be supplie d by the DHU, DEU, or by a 120 Vac to 48 Vdc power conve rter a vaila ble sepa ra tely as an accessory item plugged into a proper ly grounded 120 Vac outlet. The DRU user interf ac e consists of the c onnectors and the LED tha t are provided on the DRU front and rear pane ls. The DRU user interf ac e points are ind icated in F igure 2 and described in Table 1. 16421A REAR VIEW FRONT VIEW 4 ANTENNA CONNECT OR 1 ST A TUS LED 2 48 VDC PO WER CONNECT OR 3 FIBER LINK OPTICAL AD APTERS TXLEFT RXRIGHT Figure 2. Digital Remote Unit User Interface Table 1. Digital Remote Unit User Interface REF No. Note A detaile d desc ription of DEU LED opera tion is provided in the Digivance ICS Installation and Operation Manual ADCP75110. All antenna s include a 6 foot 1. 8 m long 50ohm coaxi al cabl e equippe d with SMA male connec tor for connec tion to the DRU.

The DRU is equipped with an SMA f ema le connector for connecting the antenna cable. The c onverter is a UL Listed sta nd alone Limited Pow er Supply LPS unit with a rated output of 48 Vdc at 1.2 A. The converter is equippe d with a 6foot 1. 8 m DC power cabl e which is te rminate d with an RJ45 male conne ctor. The 120 Vac power cord is 6 feet 1. 8 m long and is provided w ith the conver ter. I nstallation of the DRU may proceed separ ately from the installa tion of the DHU and the DEU. Use the following procedure to unpack and inspect the DRU 1. Open the shipping cart on and careful ly unpack the DRU from the protective packing material. 2. Ch eck the DRU for broken or missing parts. If the re are any damage s, co ntact ADC Telec ommunications see Customer Informati on and Assistanc e section for an RMA Return Material Authorization and to reorder if replacement is required. 2.3 Frequency Band Selection Procedure 1900 MHz DRU Only The 1900 MHz ver sion of the DRU may be configur ed to oper ate at an y one of four f reque ncy bands. A DIP switc h is provided on the underside of the DRU for selec ting the req uired fre quency ba nd. Use the following procedur e to set the DIP switc h to provide the required DRU frequency band 1. Deter mine the requi red fre quency ba nd for the DRU AD, DB E, BEF, or EFC as specified in the system design plan. 2. Orient the DRU as shown in F igure 6 and then locat e the small ope ning in the bottom of the DHU that provides access to the band select DIP switch. 3. Use a nonconductive probe to a lign the DIP switch sliding ha ndles to provide the required frequency band see Figure 6. 4. Pl ace the copper stic ker provided with the DHU ove r the small ope ning that provide s access to the DIP switch. Do not use some othe r type of mater ial to cover the DIP switch access hole. ALIGN DIP SWITCH HANDLES AS SHO WN ON THE LABEL TO PRO VIDE SPECIFIED FREQUENCY B AND Fig 6A Figure 6. 1900 MHz DRU Frequency Band Selection.

A slot is provided in each of the four mounting feet for inserting a fastener. The fast eners must be provided by the installer. Use the following procedure to mount the DRU War ning Wet conditions incr ease the potential for recei ving an el ectri cal shock when installing or using elect rica llyp ower ed equipment. To prevent elect ri cal sh ock, never install or use electrical equipment in a wet location or during a lightning storm. Note To insure that all optical con necto rs and tran sceiv ers remain dust fr ee during inst allation, leave all dust caps and dust protector s in place until directed to remo ve them fo r conn ectio n. 1. Obtain the appr opriate fasteners l ag bolts, scr ews, wall an chors, etc. for s ecuring the DRU to the mounting surface. 2. Position the DR U on the mounting surface in the s pecifi ed loca tion p er the system design. Make sure the LED will be visible when the unit is mounted. Note To ensu re ther e is ad equat e air ci rculat ion fo r cooling, pr ovide a minimum of 3 in ches 76 mm of clearan ce space on al l sides of the DRU except the bottom. In addition, at least one s urface of the DRU installation area must be ope n to the building’s interior air space. Note In mounting situations where fiber, power, and coax ial cab le passthrough hole s are planned, it is critical that these holes be pl aced far enough away from the ir respe ctive connec tors to avoid forming overly tight bend radii. Tight be nd radii can damage f iber optic cabl e and reduce RF signa l leve ls. Observe any additional instruc tions that may be printed on the te mplate such as the re comme nded fasten ers and clearan ce requirements. 4. Drill appropr iately si zed holes in the mounting surface for the mounting scre ws or wall anchors and for the fiber, power, or coaxial cables if passthrough holes are required. 5. Pl ace the DRU in position for mounting an d then insta l l the fasten ers as shown in Figure 7. 6. Securely tighten each fastener.

Al l ante nnas include a 6foot 1. 8 m long 50ohm coaxial cabl e for connec tion to the DRU. Each type of antenna provides a specifi c cove rage pa ttern in or der to accom mo date the shape of the area where cover age is re quired. Mount the a ntenna in the location specifi ed in the system design and orient according to the coverage pattern required. Note To comply w ith Maximum Per missible Exposure M PE require ments, antenna s must be installe d to provide at least 20 cen timeters 8 i nches of sepa ration from al l per sons per FCC 47 CFR Part 2.1091. 2.5.1 800 and 1900 MHz CeilingMount Omnidirectional Antenna The 800 and 1900 MHz ceiling mount omnidire ctional a ntennas are designe d to mount in the cent er of the cover age area. Mount the ce ilingmount

omnidirectiona l antenna as shown in Figure 8 and as descr ibed in the follow ing procedur e. 1. Remove ceiling tile. 2. Drill 1inch 25 mm hole in center of tile. 3. Insert antenna cable through hole. 4. Insert threaded stud on base of antenna through hold. 5. Secure antenna to ceiling tile with nylon jam n ut. 6. Replace ceiling tile. 7. Route antenna cable to DRU. Mount the ceilingmount ha llway a ntenna as shown in Figure 9 an d as descr ibed in the following procedure 1. Remove ceiling tile. 2. Drill 1inch 25 mm hole in center of tile. 3. Insert antenna cable through hole. 4. Insert threaded stud on base of antenna through hole. 5. Secure antenna to ceiling tile with nylon jam nut. 6. Orient antenna so flat sides are perpendicular with hallway walls. 7. Replace ceiling tile. 8. Route antenna cable to DRU. Mount the ceilingmount ha llway a ntenna as shown in Figure 10 an d as descr ibed in the following procedure 1. At the point where the antenna will be mounted, lo cate a suspended c eiling tile rail that is perpe ndicular to the hallw ay wa lls. If the hallway has a har d ceiling, locat e a point where the antenna may be secured directly to the ceiling.

If using a c eiling tile rail for mounting the antenna, the hole should be next to the tile rail 3. Insert the antenna cable through the hole in ceiling tile. 4. If using a tile rai l for mounting the ante nna, install the a ntenna brack et on the tile rail and proceed to step 9. If mounting the antenna from a hard ceiling, proceed to step 5. Fig 10A SMA CONNECT OR ORIENT ANTENNA SO FLA T SIDES ARE PERPENDICULAR WITH HALL WA Y W ALLS NO TE T O COMPL Y WITH MAXIMUM PERMISSIBLE EXPOSURE MPE REQUIREMENTS, ANTENNAS MUST BE INST ALLED TO PRO VIDE A T LEAST 20 CENTIMETERS OF SEP ARA TION FROM ALL PERSONS PER FCC 47 CFR P ART 2.1091. Figure 10. 1900 MHz CeilingMount Hallway Antenna Installation 2.5.4 800 MHz Directional Panel Antenna The 800 MHz dire ctiona l panel a ntenna is de signed to mount ver tically on one side of the cover age area.Use the following procedure to connect the antenna cable to the DRU 1. Locate the antenna cable that was routed to the DRU from the antenna. 2. C onnec t the ante nna cabl e to the SMA c onnector on the DRU as shown in Figure 14 an d using a torque wrench, tighten connec t or to 5 inch pounds 45 N. cm. War ning Overt igh teni ng the SMA connec t or can break the solder joint betw een the connector and the DRU circuit board assembly. Tighten connector to specified torque value. 3. Dress and secure the antenna cable per standard industry practice. ANTENNA PORT SMA CONNECTOR 16451A TORQUE WRENCH SET TO 5 INCHPOUNDS 45 N.CM Figure 14. DRU Antenna Connection 2.7 Optical Connection The opt ical interfa ce bet ween the DRU and the DHU or DEU is supported by a small form factor LC type opt ical t rans ceiver which is mounted on the DRU front panel. One side of the tran sceiv er provide s the opt ical fiber connec tion for the forward path downlink signal. The other side of the trans ceiver provides the opt ical fiber connec tion fo r the reverse path uplink signal. La ser radiation can seriously damage the retina of the eye.

Do not look into the e nds of any optical fiber. Do not look direc tly into the optical tr anscei ver of any digital unit or exposure to laser radiation may result. An optic al power meter should be used to veri fy active fibe rs. A protective cap or hood MUST be immediately place d over any radiating t rans ceiver or optical fiber conne ctor to avoid the poten tial of dangerous amounts of radiation exposure. Th is practic e also pr events dirt particles from entering the transceiver or connector. 1. Locat e the forward and revers e path opti cal links that were r outed to the DRU from the DHU or DEU. Note The proce dures for routing the forward and reverse path opt ical links from the DHU or DEU to the DRU are covere d in either the Digiva nce IC S In stalla tion and Operati on Manual ADCP75110, which is pr ovided with the DHU, or the Digiva nce ICS Digital Expansion Unit In stalla tion Inst ructi ons ADCP 75111, which is provided with the DEU. 2. Deter mine which of the opt ical cabl e pair s is designated as the forward path link and which is designated as the reverse path link. 3. Use the plastic joiner provide d with the LC opt ical connector s to join the DRU forward and revers e path c onnector s together as shown in Figure 15. Make sure the for ward pa th and the reverse path connectors are oriented as shown. Note When viewing the DRU op tical t ranscei ver from the front, the forward path port is on the right RX and the reverse path port is on the left TX.

OPTICAL ADAPTER OPTICAL CONNECTOR 16452A FOR W ARD P A TH RX CONNECT OR REVERSE P A TH TX CONNECT OR OPTICAL CONNECTOR ASSEMBLY DETAIL Figure 15. Use whicheve r of the following procedures is appropriate for the installation. 2.8.1 Power Provided by the DHU or DEU Use the following proc edure to connect the DC power cabl e when the DRU is po wered by the DHU or DEU. 1. Locat e the DC power cable that was routed to the DRU from the DHU or DEU.

Note The proce dures for routing the DC powe r cable fro m the DHU or DEU to the DRU are cover ed in eithe r the Digivance ICS Installa tion and Operat ion Manual ADCP75 110, which is provide d with the DHU, or the Digivanc e ICS Digital Expansion Unit Installation Instructions ADCP75111 which is provided with the DEU. Note The power cable maximum length is 500 meters 1,641 feet. 2. C onnec t the DC power cable to the 48 Vd c connec t or on the DRU as shown in Fi gure 16. POWER PORT POWER CONNECTOR 16453A 1 8 Figure 16. DC PO WER CABLE A C PO WER CORD 16454A Figure 17. Equipment grounding is to ensure safe oper ation. Do not defeat the grounding means. This in dicat es that the DRU is powered but not receiving a forward path optical signal. Note Early versions of the DRU use a st eady red LED to indica te all major fault conditions including no opti cal signal received. Later versions of the DRU use a blinking red LED to indicate no optical signal received. 7. Dress and secure both power cables per standard industry practice. 8. When the installation of the DRU is comple ted, refer to Section 4 of the Digivance ICS Insta llation and Operati on Manual ADCP75110 for the system t urnup an d test pr ocedur es. To obtain any of these servi ces by tele phone, firs t dial the central ADC telephone number, then dial the extension provided below. The cent ral number for c alls origina ting in the U. S. A. or Canada is 1800 3663891. For c alls originating outside the U.S.A. or Canada, dial country code “1 ” then dial 9529463000. Product infor mation ma y als o be obtaine d using the ADC web site at www.ad c.com or by writing ADC Te lecommunica tions, Inc., P.O. Bo x 1101, Minneapolis, MN 55440 1101, U.S.A. Cont ents here in are current as of th e date of publ icat ion. ADC reserves th e ri ght to change th e content s wit hout prior noti ce.

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