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These Player PCs communicate with the Manager PC over a regular LAN Network including Wireless LAN. A Single Manager Software can control unlimited number of Media Player PCs on that network. The 3M DSi LAN Solution allows you to setup a Local Area Network LAN based solution allowing you to deploy your own private network for internal corporate communications, dynamic messaging and other similar applications It allows you to add and delete content on a realtime basis. Ideal for applications in Corporate Communications, Banks, Educational institutions, Trade Shows, Conference Venues, Hospitals and other small localised networks. This Manager Software sends media files and instructions to a remote FTP Server using any available Internet Connection. The Remote Player Software resides on Player PCs in remote locations, which connect to the FTP Server at regular intervals and download updated instructions and new media files.We are focused on designing the most effective technical solution for the users needs and then successfully integrating that solution into the architectural environment. All Rights Reserved. User GuideAll other trademarks are the property of their respective owners. Specifications are subject to change withoutDisclaimer and Limitation of Liability. The content of this manual is for information use only and is subject to change without notice. 3M assumes no responsibility or liability forNo part of this manual may be reproduced in any form or by any means,FCC Notice. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercialOperation of this equipment in a residential area is likely toLe present appareil est conforme aux CNR dIndustrie Canada applicables aux appareils radio exempts de licence. Lexploitation estFCC Radiation Exposure Statement.

The antennas used for this transmitter must be installed to provide a separation distance of at least 1 meter from all persons and must notThis device complies with Health Canada's Safety Code. The

installer of this device should ensure that RF radiation is not emitted in excess of the Health Canada's requirement. Information can beLes informations peuvent etre obtenuesProduct ID RFID1000Motor Vehicle Safety Systems. Building 3Austin, TX 78759. Web www.3m.comPreface. Intended audience. This document is intended for those who wish to setup and operate the 3M. Compact RFID Reader 1000. Before attempting to install, configure, andWhat's in this guide. The information in this guide is presented as follows. Chapter 1 Reader OverviewThis chapter provides a brief overview of theAll users must readRCT and the functions you can perform with this embedded application.What's New in this Version. Version 1.2.1 of this User's Guide updates safety information and correctsConventions used in this manual. The following conventions are used in this manual. Bold courier font indicates code entered by the userWARNING Indicates a hazardous situation which, if not avoided, could result inCAUTION Indicates a hazardous situation which, if not avoided, could result in minorThis yellow symbol indicates that the device is susceptible to. Electro Static Discharge and appropriate precautions must beNOTICE advises the reader that a condition can be created by a particular action thatProduct Use Statement. Product Use Many factors beyond 3M's control and uniquely within user'sWarranty, Limited Remedy, and Disclaimer Unless a different warranty isLimitation of Liability Except where prohibited by law, 3M will not be liableTable of Contents. Reader Overview. 1Safety Information. 4Reader Equipment Installation. 9Reader Startup Tool RST Software Installation. 15Reader Operation. 24Reader Startup Tool RST. 28Embedded Reader Configuration Tool RCT. 47Configuring Digital Inputs and Outputs.

76Specifications. 83USB Port Setup. 91Disposal of the 3M Compact RFID Reader 1000. 106This page intentionally left blank.Reader Hardware. The 3M Compact RFID Reader 1000 is a multiprotocol, multiregional Radio. UHF band. Installation Notice. Installation of the 3M. Compact RFID ReaderFigure 1As shown in Figure 1 and Figure 2, this high performance reader supportsDiscrete digital inputs andFigure 2. The 3M Compact RFID Reader 1000 is also equipped with four statusFrom left to right, these LEDsNumber. Indication. Power. Off. Amber. AmberFlashing. Green. Power off. Boot loader executing. Linux initializing. Unit operational. Activity. GreenFlash. RF Off. TX Active. Tag detect. Antenna check failed. User. User defined. Status. RedGPIO activity. FaultReader Software. The 3M Compact RFID Reader 1000 is shipped with two softwareReader Startup Tool RST. RST is a Microsoft Windows application you install on your computer. With. RST, you can view all readers on your network. After selecting a reader, youConfiguration Tool RCT. Detailed information on the RST is provided in. Chapter 5. Embedded Reader Configuration Tool RCT. RCT is an embedded reader application that allows you to access yourEnter the IP address of the reader into your webDetailed information on the RCT is provided in. Chapter 6.Safety Information. Please read, understand, and follow all safety information containedAutomatic Vehicle Identification AVI, Intelligent Transportation SystemsIt is expected that all users beUse in any other applicationNOTICE For outdoor reader applications, additional packaging is required to ensureWARNING Indicates a hazardous situation which, if not avoided, could result inAttendant Warnings. WARNING To reduce the risks associated with hazardous voltage, and nonionizing radiation exposureReturn to 3M authorizedThere are no user serviceable parts.To reduce the risks associated with exposure to nonionizing radiationInstallation and Service Technician Warnings and.

CautionsWARNING To reduce the risks associated with hazardous voltage, and nonionizing radiation exposureReturn to 3M authorizedThere are no user serviceable parts. WARNING To reduce the risks associated with nonionizing radiation exposureWARNING FCC Radiation Exposure Statement. The antennas used for thisThis device complies with Health Canada's Safety. Code. The installer of this device should ensure that RF radiation is not emitted inInformation can be obtained atLes informations peuvent etre obtenuesWARNING To reduce the risks associated with hazardous temperature and fireTo reduce the risks associated with impact, muscle strain andDo not use solvents or harsh cleaners on radome or antennas.WARNING To reduce the risks associated with

reduced photometric lightUHF Readers areBefore activating other RF ports, they must alsoAlways power down the reader before removing anElectrostatic DischargeElectrostatic Discharge ESD precautions to avoid static dischargeEquipment failure can result if the antennaRegulatory ComplianceChanges or modifications not expresslyThis equipment has been tested and found to comply with the limits for a Class AThese limits are designed toThis equipment generates, uses, and canOperation of this equipment in a residential area is likely to cause harmfulTerms and Condition areMechanical InstallationThe 1000 is equipped with four mounting flanges with thruholes that. Predrill any mounting surfaceAny mounting surface must be ableFigure 3Concrete Wall Mounting. To mount the reader to a hollow concrete block wall, 3M recommends. Wood or Metal Wall Mounting. To mount the reader to a wood or sheet metal wall, 3M recommends either. Drywall MountingThe 1000 supports from one to four antennas in a variety of configurations. The optional 3M provided antennas must be installed on a solid surface orIt is highly recommendedElectrical Installation.

Figure 4The 3M Compact RFID Reader 1000 is designed to meet the regulatory requirements inChanges or modifications not expressly approvedATTENTION 3M Compact RFID Reader 1000 antenna ports may be susceptible toElectrostatic Discharge ESD precautions to avoid static discharge whenIn most cases, youCompact RFID3.2.2. Reader 1000 to aCrossover CableConnecting the Serial Port. The 1000 is equipped with one DB9 type RS232 serial port forIf you are using the serial port forSee Figure 2 for location of the connector. The maximum serial cable length is 12 feet at 115200 Baud. Connecting the USB Ports. The 1000 is equipped with two USB 2.0 ports. The USB Type B port providesThis connection is used to sendThe USB Type A port is used for external devices such as printers, externalFor standard communications, connect a USB Type B cable to the readerThe maximum cable length is 5 meters to theConnecting and Configuring the Ethernet Port. The maximum Ethernet cable length is 30 meters. If you are communicatingSee Figure 2 forIf you are connecting the reader directly to a PC,See Note to the left. By default, the reader is configured to use a DHCP server to obtain its IPIn the event a DHCP server is unavailable,In the absence of other readers on the same network, and if no otherIP address settings can be changed using RST. Refer to the View or ChangeConnecting the Antennas. The maximum antenna cable length is 10 meters. Connect the antenna toAntennas can be connected as monostatic, bistatic, or a combination of theIf activated, this RF port must be properly terminatedAlways power down theThe maximum antenna cable length is 10 meters. ATTENTION The 3M Compact RFID Reader 1000 antenna port may be susceptible toElectrostatic Discharge ESD precautions to avoid static discharge whenThe digital inputs can be used as general purposeThese inputs can beThe digital outputs can be used as general purpose outputs, to indicate tagFor detailed information on configuring theConnecting the Power.

Connect the 24 VDC power adapter to the reader and connect the power. Allow 30 seconds forReader Startup Tool RST Software InstallationThe 1000 is delivered with a Microsoft Windows application called Reader. Startup Tool RST. You can use this application to initially configure yourInstall RST. To install RST, load your product CD and doubleclick the. RSTInstaller.msi fileSelect Reader Tool Suite.Read the License Agreement. SelectAfter the installation completes, press. Close.Windows 7 Setup. If you have a Windows 7 operating system, your firewall may block UDPPerform theFor Microsoft Firewall. Log into your computer as Administrator. Navigate to the Control Panel and select. Select Allow a program through Windows firewall. Scroll down the list and locate Startup Tool, check it, and press OK. If Startup Tool is not in the list, press Allow another program. Locate Startup Tool, check it, and press OK. Restart RST and it should discover readers. For ThirdParty Firewalls. Set your firewall to allow RST to receive UDP traffic on port 50000 andReader Startup. To begin using your reader, open the RST application. Open RST. From your Windows desktop, select. If this is the first time starting the RST application, you may receive a. Windows Security Alert. This warning indicates that the firewall isIf the warning window is hidden

under the RST windows, collapse the. RST window. Press Unblock.Security Alert popup. IF RST does notPress Refresh on the RST. The RST main page will display any readers currently connected to theInitial Reader Setup. To configure a specific reader, perform the following. Reader Setup. Select the reader on the main RST page by clicking the button to the leftPress the. The 1000 Setup Wizard RSW is displayed. If this is theSelect a configuration that most closely resembles your installation and. Custom Setup. If your installationSee the Advanced. Setup chapter in thisSaving Reader Setup.

Reader setupIf you don't save theFinish to complete the initial reader setup.Reader OperationThe 3M Compact RFID Reader 1000 can be operated either from the RSTConfiguration Tool RCT. To operate the reader from RST, perform theOpen RST. From your Windows desktop, selectThe Reader Test Tool RTT is displayed.For administrator login, select admin. The initial password Pwd isVerify the Operating Mode is set to Active. From the pulldown menu. Select the Tag Performance tab and press Start. Place tags in front of antenna and verify tags are read and displayed.Deployed Reader Operation with RCT. Once your readers are deployed, you can access them directly using theTo access a particular reader,The reader's RCT interface is displayed. Log into the reader. Press Login for the login screen. The default login is guest. If you need administrator privileges, login asPress Submit.Configuration Tool for information on using RCT to adjust configurationReader Startup Tool RST. The Reader Startup Tool RST provides an easytouse interface for the 3M. Compact RFID Reader 1000 configuration and operation functions. ThisLaunch the Reader Setup Wizard to configure a reader. View and change a reader's network settings. Add a new reader to the network. Launch Reader Diagnostic Tool to view statistics, alarms, and reports. View Readers on the Network. When RST starts up, all readers currently connected to the network andConfigure Reader with the Setup Wizard. The Reader Setup Wizard is used to initially configure your reader forRegulatory region and subregion. Protocol. Number of antennas. Estimated tag volume. To initially configure your reader perform the following. From the RST main page, press the. Wizard is launched as shown.Customize Discovery Options. You can customize the reader discovery options including the Listen. Address and Request Multicast Address.This is customizable on the reader.This is customizable on the reader.

In addition, you can select if you want a secure connection for the Test. Configure, and Diagnostic Tools. This connection uses the HTTPS protocolFrom the RST main page, press the. Select either IP version 4 or IP version 6. Enter the Listen Address and Request Multicast Address as required. Select whether you require a secure connection for the Test, Configure,Press Apply.View or Change the Reader's Network Settings. Verify the IP Address, Subnet, and Default Gateway are correct. If Enable DHCP is selected these fields will be locked. If required, change the values. If your reader is running Version 2.0 or later firmware, enter your loginPress Apply.Reader Test Tool RTT. The Reader Test Tool RTT is primarily designed for new users to testWith RTT, youIssue commands to the reader and view the responses. Run macros. Observe reader events. To access the Reader Test Tool, press theGeneral Page. The General Page allows you to issue commands to the reader and viewLogin to Reader. To login to the reader, perform the following. Select the type of Login from the pull down. The default login is guest. IfEnter your Password. Enter readeradmin as the password if you loggedPress OK. Select Operating ModeThe transmitter is enabled at the beginning ofSelect Protocol. You can activate one or more protocols on the 1000 using RST. From the. Active protocols areAntenna Selection. You can select the ports that have antennas connected and which antennasActive antennasEnter the antenna numbers in the order to be activated. Press OK.Tag Performance Page. The Tag Performance page is used to test the reader performance. Although it is best suited for reading large populations hundreds of tags,To initiate a timed test, enter the length of test in ms into the Total Query. Time field. For example, to verify to number of tags read in a 30secondOutput statistics are readonly and include Total Unique Tags, Tag Read. Count, Cumulative Rate, and Current Rate.

Detailed descriptions of the various Tag Performance fields and functionsTag read controls are provided by the Tag Database Query and Scan. Operation blocks. Use the Query controls when the reader is in ActiveTag and reader performance data is provided in the Performance. Information and Tag Acquisition Analysis blocks.Performance InformationTag Database Query Controls. Click to retrieve the current information from reader'sClick to query the tag database every Query IntervalIf Total Query Time isClick to stop automatic query. Indicates current read rate with audible tone. Check to purge the reader's tag database after eachProtocol Reference Guide for more information on theTag Acquisition Analysis. The Tag Acquisition Analysis fields provide the minimum, maximum, andFor example, assume five tagsThe displayed values are as follows. Scan Operation. After this time expires, the tag information is displayed. Press this button to activate the reader. Purge and Clear Reader StatisticsTag Management Page. The Tag Management page is used for reading individual fields on a singleAccess Code. Tag IDClear Read and Write FieldsMacros Page. The Macros page allows the reader to manage macro files. The macros areSome of the macrosA macro script or command file is a text file that contains one or moreThese variables areReader button is selected. The syntax of a variable is. During execution, the variable is replaced with user entries into the Macro. Variables dialog box. Macros can be edited with any text editor including. Windows Notepad.Macro Input subwindow. The Macro Input window shows the current script that will be sent to theThe text in the Macro. Input window can be edited prior to being sent to the reader. Macro Output subwindow. The Macro Output window is updated after the Send to Reader button isMacro Variables Dialog box. When a macro is sent to theFor example, one macro can beMacro Example.

To configure the reader for ETSI, EN302208 Dense, fourantenna portalEvent Handling Page. The Event Handling page allows you to register for Reader Events. AfterIndividual eventsFor detailed information on. Compact RFID Reader 1000 Protocol Reference Guide. Registering for an individual event. To register for an individual event, either type the event name or select anRegistering for a group of events. Registering for event.error events, will cause the reader to autonomouslyEnter event.error in the Events fieldThe Clear button can be selected at anyAntenna Settings Page. The Antenna Settings page allows you to adjust the power settings for eachReader Diagnostics Tool RDT. The Reader Diagnostic Tool RDT is to be used by 3M trained technicians toAdministrator login isThe Channel Stats page shows details of channel changes. This page isAlarms. The Alarms page is used to capture autonomous alarms generated by theThe alarms are defined as autonomousTag Report. The Tag Report page is used to view specific information for each tagCautionSpectrum Analyzer. The Spectrum Analyzer allows you to examine the spectral composition ofThis feature provides aThis feature is intended for expert users toPower Ramp Tool. The Power Ramp Tool determines the minimum power to activate a tag andThis activation power level can helpThe tool starts by configuring the reader to start transmitting at a lowThe transmitter is turned off and theThe Power Ramp controls includeEmbedded Reader Configuration Tool RCT. The Embedded Reader Configuration Tool RCT allows you to access yourWith this application, you canAdvanced Configurations. Check System Status. Access the online Help. To access the RCT, press theBasic Configuration. With the Basic Configuration functions you can perform the followingSet tag protocols. Setup the serial port. Setup digital accessories. Setup antennas. Set regulatory modes. Configuration Page Header. Each page displayed by the RCT has the following header.

This header provides pulldown menus for each of the configurationLogin. The reader's default user level is guest. However, a user can login as admin. If not logged in as admin, the default level is always guest. The guest login level provides readonly access to the reader. Clients thatClients at this level cannotThe admin login level provides readwrite access to the reader. Clients thatLogout. After logging in as admin, the Logout button logs you out of the reader. Logging out automatically sets the login level to guest. Profile. Profile is the currently active profile in the reader. Refer to the Manage. Profiles section for detailed information on reader profiles.Save. The Save button saves the readers

current configuration to the specifiedManage Profiles. This link allows you to list, save, and delete profiles. Profiles section for detailed information on reader profiles.The reader's configuration is stored in a profile. A profile contains theThe reader canDetailed information about reader profiles. Reader 1000 Protocol Reference Guide. The Manage Profiles page provides a list of all profiles stored in the reader. Save a Profile. Profile Names. The profile nameThis profile is a readTo save your current reader configuration under a new profile, enter aThe new profile will appear in the Profile. Name list. Profile names must consist of the characters A Z, a z, 0 9, . The reader canActivate a Profile. To activate a previously saved profile, press the Activate button beside theDelete a Profile. To delete a previously saved profile, press the Delete button beside theOnce a profile is deleted, itReset to Factory Default. In addition to managing reader profiles, you can also reset the reader backFrom the Profiles page select one orSet Tag Protocol. This Set Tag Protocol page consists of two forms. The first form top allowsCurrently, the reader can operateSelect the check box for the protocols to enable and then press Enable.

Selected Protocols to activate the protocol. Click on a specific protocol to view the lower form. This form allows you toThe protocol level parametersControl parametersPhysical parameters configure the physicalFor detailed information on each of the Control and Physical parameters,Parameter descriptions are provided inIP, Mac, subnet,You can use thisGeneral Settings allow you to specify the host and domain name of theYou can also select your domain name in this window.To manually specify thisOther Settings allow you to configure the NTP servers the reader canEnter all the required information and press Submit.The Setup Serial Port function allows you to configure the serial portData bits.