ISDN

Digital Set Data User's Guide

SRS-2100
SRS-1050

Fujitsu

Delivering on the promise of ISDN

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Part Number P-UG-2100D
Revision 2.0

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SRS-2100/SRS-1050

Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with radio or television reception, which can be determined by unplugging the equipment to turn it off, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna of the affected receiver.
- Increase the separation between the equipment and the affected receiver.
- Connect the equipment to an outlet on a circuit different from the one to which the affected receiver is connected.
- Consult a dealer or experienced radio or television technician for help.

Cable Notice: The use of standard shielded cables to connect external data devices is required to ensure compliance with FCC Part 15 Rules for Class B devices.

PREFACE

This guide provides descriptions and procedures for using the data features of Fujitsu's Digital Set, when it is attached to a switch supporting National ISDN (NISDN). Appendix A describes additional features available on a 5ESS switch equipped with Custom software.

This guide is for anyone interested in using the Fujitsu Digital Set to gain the benefits of the combined voice and data network capabilities of ISDN technology.

USING THIS GUIDE

This section can help you make the most efficient use of this guide. The section describes the overall organization, aids to finding information, and conventions.

Organization

This guide is organized in the following chapters:

Chapter	Content
Chapter 1	Introduction
Chapter 2	Configuring the Terminal Adapter
Chapter 3	Off-Line Commands
Chapter 4	Making and Clearing Data Calls
Chapter 5	Using AT Commands
Chapter 6	Using X.28 Commands
Chapter 7	Voice Call Control (SRS-2100)

Conventions and Layout

In procedures, the required actions are noted, with the buttons you press in capital letters, such as HOLD or REDIAL.

Other important words, such as messages that appear on the display, also appear in CAPITAL LETTERS.

ISDN CONCEPTS: INTEGRATED VOICE AND DATA

ISDN stands for Integrated Services Digital Network, which provides many voice and communication features. The basic ISDN service provides two 64,000 bits per second "B" channels for voice or data communications. Each B-channel can support circuit-switched or packet-switched data services. There is also one "D" channel, at 16,000 bits per second, for network signaling and packet-switched data service. The combination is often referred to as "2B+D", or the Basic Rate Interface (BRI).

This guide provides descriptions and procedures for using the data features of the Fujitsu SRS series of voice/data digital sets (SRS-2100 and SRS-1050). This guide describes data functionality on the AT&T 5ESS and the DMS 100 switches.

Table 1 Digital Set Features and Specifications

Feature	SRS-2100	SRS-1050
D-channel packet	X	X
Terminal speed	19,000 bps	19,000 bps
Asynchronous B-channel circuit-switching	X	X
Speed	38,400 bps	38,400 bps
Synchronous B-channel circuit-switching	X	
Speed	56,000 or 64,000 bps	N/A
Interface	RS-232	RS-232
Rate adaption	V.110 Synchronous V.120 Asynchronous	V.120 Asynchronous

System Administrator

ISDN is very flexible in allowing businesses to customize how it works to meet their specific needs. This User's Guide refers you to your System Administrator if a customized option may have been chosen during installation. Your System Administrator may be your phone company representative or a member of your telecommunications department.

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