

Welcome to your Classnet 3.15 Version Installation Guide

Technical precautions

The Classnet 3.15 Version System is produced by Minicom Advanced Systems Limited, and includes many features that are described later in this Installation Guide, Version 1199A.

This equipment generates radio frequency energy and if not installed in accordance with the manufacturer's instructions, may cause radio frequency interference.

This equipment complies with Part 15, Subpart J of the FCC rules for a Class A computing device. This equipment also complies with the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of the Canadian Department of Communications. These above rules are designed to provide reasonable protection against such interference when operating the equipment in a commercial environment. If operation of this equipment in a residential area causes radio frequency interference, the user, and not Minicom Advanced Systems Limited, will be responsible.

Changes or modifications made to this equipment not expressly approved by Minicom Advanced Systems Limited could void the user's authority to operate the equipment.

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Table of Contents

CHAPTER 1: INTRODUCTION	1-1
Advantages of the Classnet 3.15 Version	1-1
How to use this Installation Guide	1-1
Introduction and Overview (Chapters 1 and 2)	1-1
The Units (Chapter 3)	1-1
System Connections (Chapter 4)	1-1
Operational Setup (Chapter 5)	1-1
Appendixes and Index	1-1
Expressions used in this Installation Guide	1-2
CHAPTER 2: OVERVIEW	2-1
Advance Planning	2-1
Stages of the Installation	2-1
Configuring the Classroom	2-3
Operating Classnet	2-3
CHAPTER 3: THE UNITS	3-1
The T.I.U. (Teacher Interface Unit)	3-1
The S.I.U. (Student Interface Unit)	3-2
Setting the Dipswitches	3-4
CHAPTER 4: SYSTEM CONNECTIONS	4-1
Connecting the Units	4-1
Connecting to the 9 VAC Connector	4-1
Optional extras	4-1
Connecting to the Audio Port	4-1
Connecting the Keyboard Cable	4-2
To connect the Keyboard Cable for PC/AT (P/N CB0050)	4-2

Table of Contents

To connect the Keyboard Cable for PS/2 (P/N CB0049)	4-3
Connecting the Mouse Cable	4-4
To connect the Mouse Cable for PC/AT (P/N CB00055)	4-4
To connect the Mouse Cable for PS/2 (P/N CB0053)	4-5
Connecting to the Control Port	4-7
To connect the T.C.U.	4-7
Connecting the Screen	4-8
To connect the Screen Cable	4-8
Connecting the System Cables	4-9
System Cable Pinout Definition	4-10
Connecting the Terminator	4-11
To connect a Terminator	4-11
CHAPTER 5: CONNECTING THE SYSTEM	5-1
What to Connect	5-1
Connecting the T.C.U.	5-1
Connecting the C.I.U.	5-2
APPENDIX A: TECHNICAL SPECIFICATIONS	A-1
APPENDIX B: CLASSNET 3.15 VERSION PRODUCT LINE	B-1

Chapter 1: Introduction

Chapter 1 discusses:

- ◆ Advantages of the Classnet 3.15 Version
 - ◆ How to use this Installation Guide
 - ◆ Terms used in this Installation Guide
-

Advantages of the Classnet 3.15 Version

Classnet 3.15 Version is our box solution that supports:

- IBM PC/AT, or PS/2
- VGA, SVGA, or XGA video standards
- Up to 99 Students

How to use this Installation Guide

This Installation Guide is divided into five sections:

Introduction and Overview (Chapters 1 and 2)

This section outlines the configuration of the *Classnet 3.15 Version* classroom.

The Units (Chapter 3)

This chapter describes the T.I.U., the S.I.U. and includes an explanation on setting the ID Number and the Dipswitches.

System Connections (Chapter 4)

This chapter describes connecting the cables to the units.

Operational Setup (Chapter 5)

This chapter discusses connecting the T.C.U. for hardware control and the C.I.U. for software control.

Appendixes and Index

This section contains essential reference material.

Expressions used in this Installation Guide

<u>Expression</u>	<u>Refers to</u>
C.I.U.	Control Interface Unit
T.C.U.	Teacher Control Unit
T.I.U.	Teacher Interface Unit
S.I.U.	Student Interface Unit

Chapter 2: Overview

Chapter 2 discusses:

- ◆ **Advance Planning**
 - ◆ **Stages of the Installation**
 - ◆ **Configuring the Classroom**
 - ◆ **Operating Classnet**
-

Advance Planning

Thorough planning is the key to successful configuration of your *Classnet 3.15 Version* classroom. Time spent prior to the actual installation - in preparation and planning, will prove itself time well invested. Consider:

- Drawing a sketch of your proposed *Classnet 3.15 Version* classroom taking into account the positioning of the computers and the Teacher's position. Minicom can preview your sketches, providing general advice and further tips when required.
- Making provision for electrical wall sockets - if necessary, a certified electrician should prepare sufficient outlets prior to the installation of the *Classnet 3.15 Version* classroom. Each outlet should have the same phase and a common ground.
- Using Line Boosters or Line Multipliers.

Stages of the Installation

The order in which you install your *Classnet 3.15 Version* classroom is a question of common sense and convenience. Every person has his or her way of doing the same thing. Nevertheless, we do recommend the following guidelines:

- In advance of the day of the actual installation check the classroom's layout: the positioning of the furniture, the

Stages of the Installation

lighting and electrical outlets and that there is sufficient plastic duct attached to the walls for the System Cabling. This will allow time for the classroom's administrators to carry out any rearrangements prior to the day of the actual installation.

- Also measure the AC and DC voltages between ground points. Ground potential differences greater than 1 volt will affect the server system.

Caution: Risk of Electrical Shock! Electrical measurements and modifications should only be attempted by qualified personnel.

- Good building wiring, particularly the grounding system, is the most important element in reducing ground loops. Check your system, faulty wiring can be lethal as well as hazardous to equipment. Use full size ground conductors to reduce the ground impedance. Use ground grids to equalize the ground potential. Refer to the National Electric Code (NEC). The online version may be found at <http://www.elec-toolbox.com/nec.htm>.
- The simplest method of controlling ground loops is to connect all equipment to the same building ground point. Unfortunately, this is not always possible due to the physical placement of system components and the distances between them.
- Cable routing is important. Keep cable runs as short as possible. This will keep cable resistance to a minimum. The less cable, the less ground loop voltage created. Note: Cables and equipment placed in close proximity to light dimmers, motorized electronics and electronics generating RF emissions can create noise in the system.
- On the day of the actual installation the first stage is to ensure that the *computer equipment* is installed and operates correctly. To do this, switch on all the computers to confirm that each workstation functions. Once confirmed, switch off all the computers.

- Determine where in the classroom you are going to place the *Teacher Position*. Usually the Teacher sits at the front of the class; but not always.
- Unpack and then position all the *Classnet equipment* at its place of installation.

Computer equipment for the Teacher and each Student includes, but is not limited to, a computer, a keyboard, a screen, and a mouse. **Classnet 3.15 Version equipment for the Teacher** includes a *Teacher unit*, a TCU and/or a CIU plus various cables. **Classnet 3.15 Version equipment for the Student** includes a *Student unit* for each Student position and various cables.

Configuring the Classroom

Configuring the classroom involves combining both:

- *Computer equipment*; and
- *Classnet 3.15 Version equipment*

Operating Classnet

You choose how to operate your *Classnet 3.15 Version* classroom - using either *hardware* or *software*. For software operation, use the **ARISTOCLASS Software**. For hardware operation, using the TCU, refer to the *Classnet Operating Guide*.

Chapter 3: The Units

Chapter 3 discusses:

- ◆ The Teacher Interface Unit
 - ◆ The Student Interface Unit
 - ◆ Setting the Dipswitches
 - ◆ Setting the ID Numbers
-

The T.I.U. (Teacher Interface Unit)

Figure 3-1 illustrates the T.I.U.'s front view.



Figure 3-1 Teacher Interface Unit Front View

Figure 3-2 illustrates the T.I.U.'s rear view. Refer to Figure 3-5 on page 3-3 for a zoomed illustration of the T.I.U.'s rear view.



Figure 3-2 Teacher Interface Unit Rear View

The S.I.U. (Student Interface Unit)

Figures 3-3 and 3-4 illustrate the S.I.U.'s front and rear views.







Figure 3-3 Student Interface Unit Front View



Figure 3-4 Student Interface Unit Rear View

Front Panel Indicators include the following:

LED	Picture	Illumination indicates
WAIT		Unit is performing a function
O.K.		Unit is switched on
HELP		Student needs help
PRINTER		Unit is connected to the Printer Unit

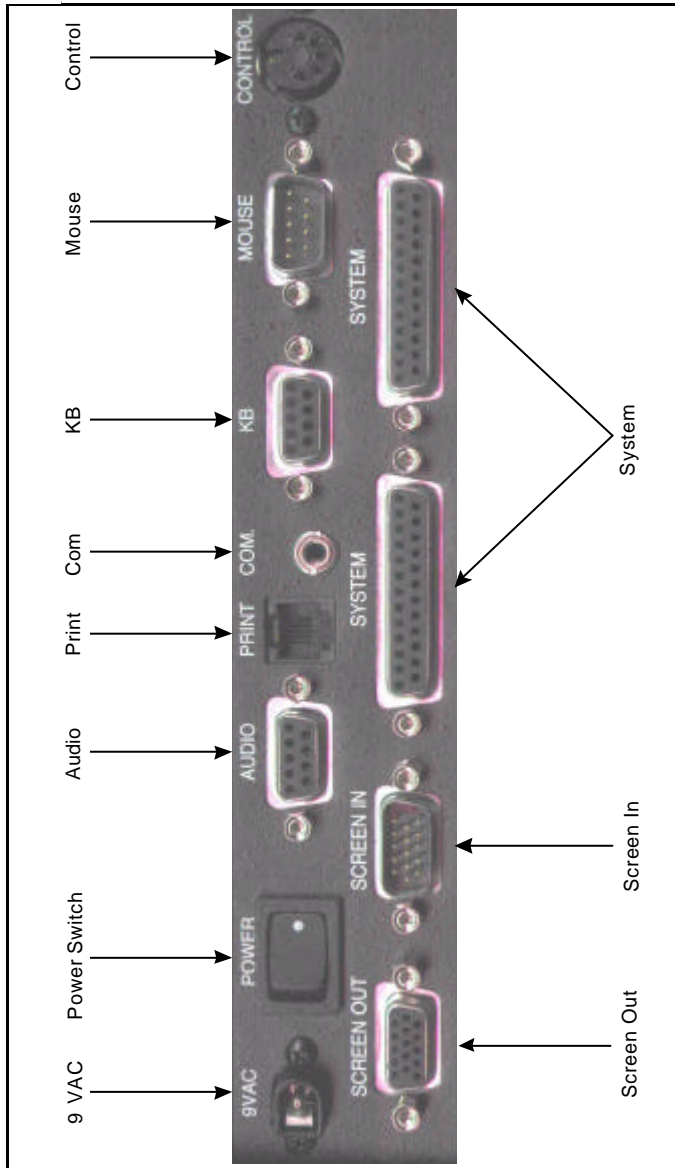


Figure 3-5: Teacher Interface Unit Rear View (Zoomed)

Setting the Dipswitches

The underside of the Unit has 2 sets of Dipswitches.

Figure 3-6 illustrates the ID Number Dipswitches.

Figures 3-7 and 3-8 illustrate the Dipswitches for the PC/PS settings.

The ID Number

On each Unit, you set the ID Number using Dipswitches 1 to 6. The Dipswitches are set using binary numbers.

OFF = 0.

ON = 1.

To set the S.I.U ID Number see the binary table that starts on page 3-5.

CAUTION: Make sure you don't give two units the identical ID Number.

Set the T.I.U. ID Number to 0.

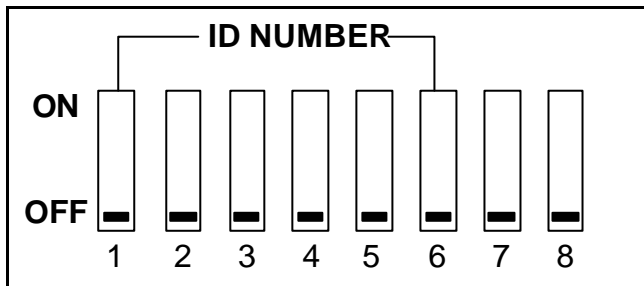


Figure 3-6: The Unit's ID Numbers 1 to 6

PC/PS settings

You need to set **Dipswitches 7 and 8** and the **PC/PS Dipswitches** for **PC/AT** or **PS/2**, as Figures 3-7 and 3-8 illustrate.

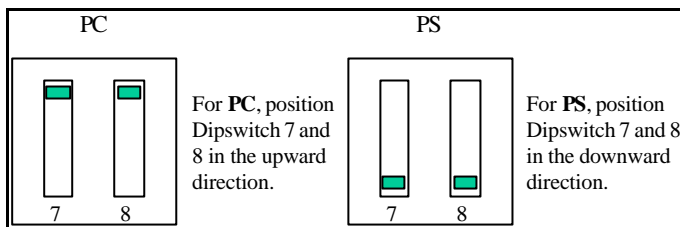


Figure 3-7: Setting the Unit's Numbers 7 and 8 for PC/PS

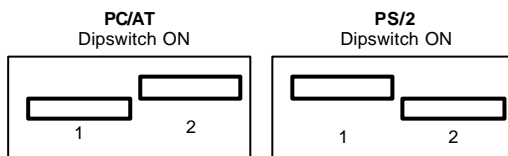


Figure 3-8: Setting the PC/PS Dipswitch

The student unit ID Numbers

Student Number	Switch Number							
	1	2	3	4	5	6	7	8
1	1	0	0	0	0	0	0	0
2	0	1	0	0	0	0	0	0
3	1	1	0	0	0	0	0	0
4	0	0	1	0	0	0	0	0
5	1	0	1	0	0	0	0	0
6	0	1	1	0	0	0	0	0
7	1	1	1	0	0	0	0	0
8	0	0	0	1	0	0	0	0
9	1	0	0	1	0	0	0	0
10	0	1	0	1	0	0	0	0
11	1	1	0	1	0	0	0	0
12	0	0	1	1	0	0	0	0

The T.I.U. (Teacher Interface Unit)

Student Number	Switch Number							
	1	2	3	4	5	6	7	8
13	1	0	1	1	0	0	0	0
14	0	1	1	1	0	0	0	0
15	1	1	1	1	0	0	0	0
16	0	0	0	0	1	0	0	0
17	1	0	0	0	1	0	0	0
18	0	1	0	0	1	0	0	0
19	1	1	0	0	1	0	0	0
20	0	0	1	0	1	0	0	0
21	1	0	1	0	1	0	0	0
22	0	1	1	0	1	0	0	0
23	1	1	1	0	1	0	0	0
24	0	0	0	1	1	0	0	0
25	1	0	0	1	1	0	0	0
26	0	1	0	1	1	0	0	0
27	1	1	0	1	1	0	0	0
28	0	0	1	1	1	0	0	0
29	1	0	1	1	1	0	0	0
30	0	1	1	1	1	0	0	0
31	1	1	1	1	1	0	0	0
32	0	0	0	0	0	1	0	0
33	1	0	0	0	0	1	0	0
34	0	1	0	0	0	1	0	0
35	1	1	0	0	0	1	0	0
36	0	0	1	0	0	1	0	0
37	1	0	1	0	0	1	0	0
38	0	1	1	0	0	1	0	0
39	1	1	1	0	0	1	0	0
40	0	0	0	1	0	1	0	0
41	1	0	0	1	0	1	0	0
42	0	1	0	1	0	1	0	0
43	1	1	0	1	0	1	0	0
44	0	0	1	1	0	1	0	0
45	1	0	1	1	0	1	0	0
46	0	1	1	1	0	1	0	0
47	1	1	1	1	0	1	0	0
48	0	0	0	0	1	1	0	0
49	1	0	0	0	1	1	0	0
50	0	1	0	0	1	1	0	0
51	1	1	0	0	1	1	0	0

The Units

Student Number	Switch Number							
	1	2	3	4	5	6	7	8
52	0	0	1	0	1	1	0	0
53	1	0	1	0	1	1	0	0
54	0	1	1	0	1	1	0	0
55	1	1	1	0	1	1	0	0
56	0	0	0	1	1	1	0	0
57	1	0	0	1	1	1	0	0
58	0	1	0	1	1	1	0	0
59	1	1	0	1	1	1	0	0
60	0	0	1	1	1	1	0	0
61 *	1	0	1	1	1	1	0	0
62 **	0	1	1	1	1	1	0	0
63 **	1	1	1	1	1	1	0	0

0 = OFF, 1 = ON

*** Number 61 is reserved for the Projector Unit if it is being used.**

**** Number 62 and/or 63 is reserved for the Multimedia Unit if it is being used.**

Chapter 4: System Connections

Chapter 4 discusses:

- ◆ **Pre-installation Tips**
 - ◆ **Connecting Cables to the Units**
-

Before connecting the *Classnet 3.15 Version* classroom:

- *Switch off all the computers.*
- *Place cables away from fluorescent lights, air conditioners, and machines liable to generate electrical noise.*

Connecting the Units

Your Classnet 3.15 Version classroom connects all the S.I.U.s to the T.I.U. Connecting the cables to the T.I.U. and to the S.I.U. is similar. Figure 3-5 on page 3-3 illustrates the ports on the T.I.U.'s rear panel. The following section describes connecting to each of these ports.

Connecting to the 9 VAC Connector

Connect the 220V or 110V 9VAC 1.5A Adapter's Power Cable to the 9 VAC connector.

Optional extra

Connecting to the Audio Port

To connect an Audio unit:

Connect the Audio Cable's DB9M connector to the DB9F Audio port.

For further details about the optional Audio unit, refer to the Audio Manual.

Connecting the Keyboard Cable

Use the Keyboard Cable to connect the T.I.U. or S.I.U. to the CPU and the Teacher's keyboard. There is a different Keyboard Cable for PC/AT or PS/2, as Figures 4-1 and 4-2 illustrate.

To connect the Keyboard Cable for PC/AT (P/N 5CB10050)

1. Connect the Keyboard Cable's main DB9M connector to the T.I.U.'s or S.I.U.'s DB9F *Keyboard* port.
2. Connect the Keyboard Cable's DIN5F *short portion* connector to the keyboard's DIN5M connector.
3. Connect the Keyboard Cable's DIN5M *long portion* connector to the CPU's DIN5F *Keyboard* port.

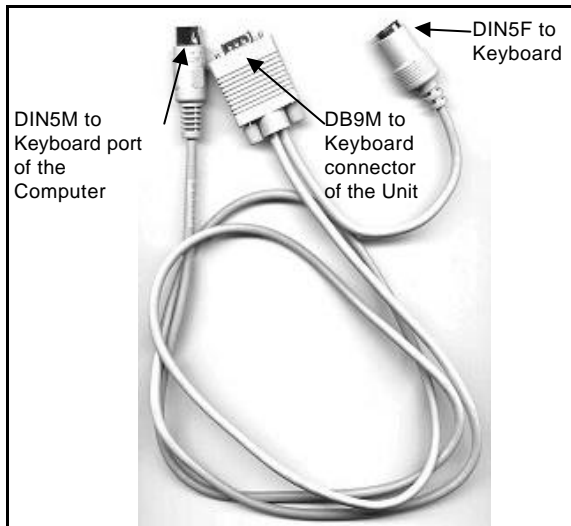


Figure 4-1: The Classnet Keyboard Cable PC/AT (P/N 5CB10050)

To connect the Keyboard Cable for PS/2 (P/N 5CB10049)

1. Connect the Keyboard Cable's DB9M connector to the T.I.U.'s or S.I.U.'s DB9F *KB* port.
2. Connect the Keyboard Cable's MiniDIN6F *short portion* connector to the keyboard's MiniDIN6M connector.
3. Connect the Keyboard Cable's MiniDIN6M *long portion* connector to the CPU's MiniDIN6F *Keyboard* port.

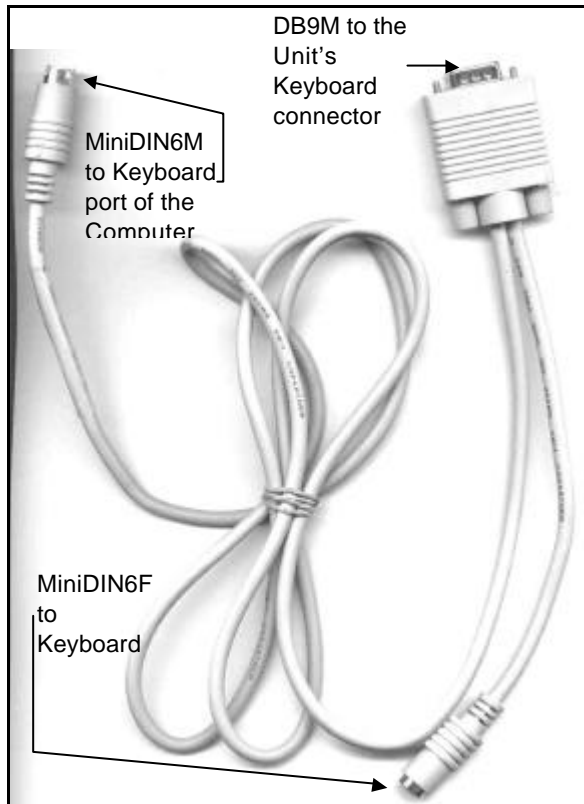


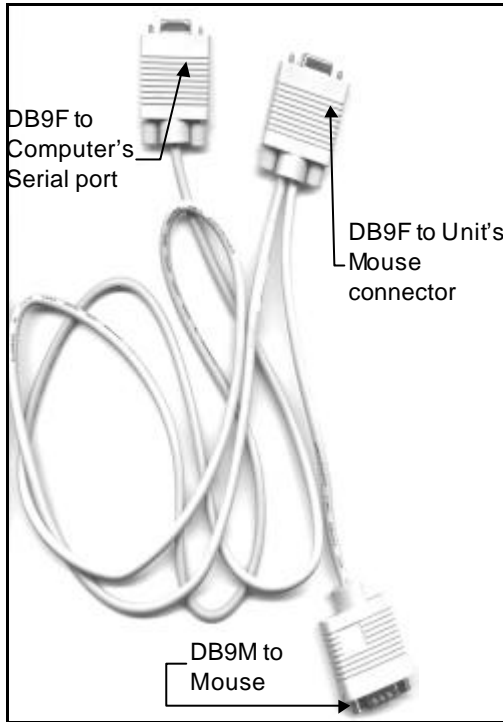
Figure 4-2: The Classnet Keyboard Cable PS/2 (P/N 5CB10049)

Connecting the Mouse Cable

Use the Mouse Cable to connect the T.I.U. or the S.I.U. to the CPU and the Teacher's mouse. There is a different Mouse Cable for PC/AT or PS/2, as Figures 4-3 and 4-4 illustrate.

To connect the Mouse Cable for PC/AT (P/N 5CB10055)

1. Connect the Mouse Cable's main DB9F connector to the T.I.U.'s or the S.I.U.'s DB9M *Mouse* port.
2. Connect the Mouse Cable's DB9M *short portion* connector to the mouse's DB9F connector.
3. Connect the Mouse Cable's DB9F *long portion* connector to the CPU's DB9M *Mouse* port.



**Figure 4-3: The Classnet Mouse Cable PC/AT (P/N 5CB10055)
To connect the Mouse Cable for PS/2 (P/N 5CB10053)**

1. Connect the Mouse Cable's DB9F connector to the T.I.U.'s or S.I.U.'s DB9M *Mouse* port.
2. Connect the Mouse Cable's MiniDIN6F *short portion* connector to the mouse's MiniDIN6M connector.
3. Connect the Mouse Cable's MiniDIN6M *long portion* connector to the CPU's MiniDIN6F *Mouse* port.

Connecting the Mouse Cable

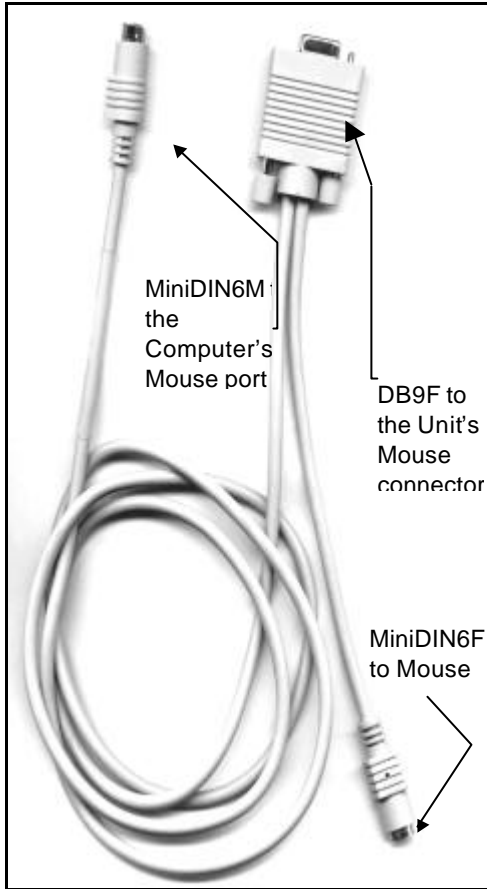


Figure 4-4: The Classnet Mouse Cable PS/2 (P/N 5CB10053)

Connecting to the Control Port

- Connect the T.C.U. by connecting the Control Cable (P/N 5CB10033) between the T.C.U. and the T.I.U., as Figure 4-5 illustrates.

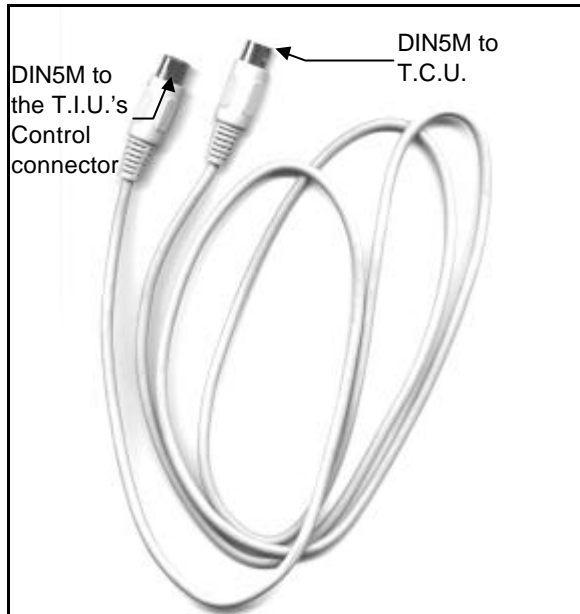


Figure 4-5: The Classnet Control Cable (P/N 5CB10033)

After connecting and then switching on the system, the T.C.U. draws its power from the T.I.U. via the Control Cable. So connecting the *Control Cable* to the T.C.U. suffices. Figure 5-1 on page 5-1 illustrates the T.C.U..

To connect the T.C.U.

1. Connect one of the *Control Cable*'s DIN5M connectors to the DIN5F Control port on the T.I.U.'s rear panel.
2. Connect the other *Control Cable*'s DIN5M connector to the TCU's DIN5F port on the T.C.U.'s back panel.

Connecting the Screen

The Screen Cable (P/N 5CB40056), as Figure 4-6 illustrates, consists of a HDD15M connector attached at one end, and a HDD15F connector attached at the other end. You use the same Video Cable for the *Teacher position* and each of the *Student positions*.

To connect the Screen Cable

1. Connect the screen's HDD15M connector to the T.I.U.'s (or S.I.U.'s) HDD15F *Screen Out* port.
2. Connect the Screen Cable's HDD15M connector to the CPU's HDD15F *Screen* port.
3. Connect the Screen Cable's HDD15F connector to the T.I.U.'s (or S.I.U.'s) HDD15M *Screen In* port.

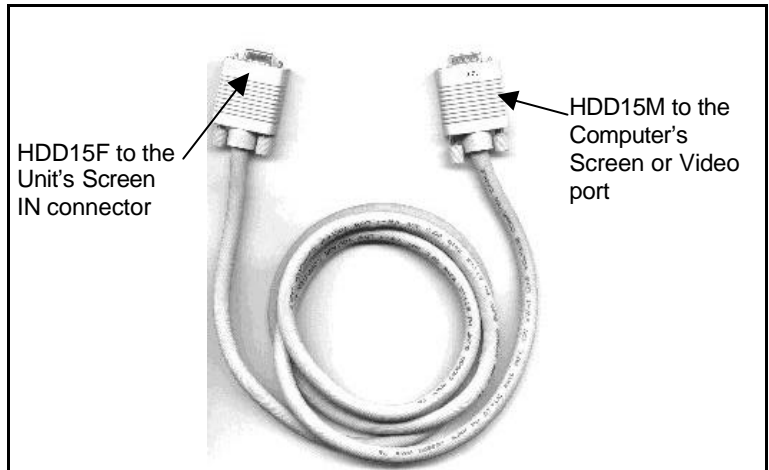


Figure 4-6: The Screen Cable (P/N 5CB40056)

Connecting the System Cables

The System Cables (P/N 5CB40082) join all the *Student units* in the classroom together with the *Teacher unit* in a daisy-chain loop. Each System Cable has a DB25M connector attached at each end, as Figure 4-7 illustrates. See also Figure 4-9 on page 4-12.

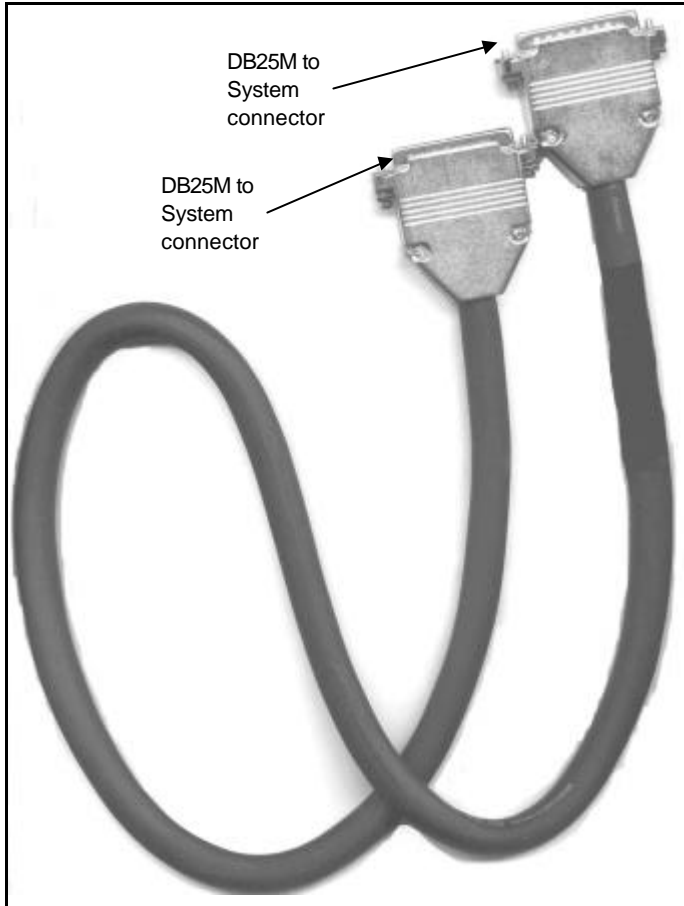


Figure 4-7: The System Cable (P/N 5CB40082)

System Cable Pinout Definition

DB2M Pin #	Color	Signal and Comments
1	Red Coax	Red Signal Coax
2	Green Coax	Green Signal Coax
3	Blue Coax	Blue Signal Coax
4	Brown – White	Horizontal Sync.
5	Pink – Black	Vertical Sync.
6	Orange – Black	System Communication RXD
7	Red – White	System Communication TXD
8	Red – Black	Local Communication RXD
9	Orange – White	Local Communication TXD
10	Brown	Mouse Clock
11	Yellow	Mouse Data
12	Red	Keyboard Data
13	Orange	Keyboard Clock
14	Body	Common Ground; Shield
15	Body	Common Ground; Shield
16	Body	Common Ground; Shield
17		Not Connected
18	Gray	Not used in Classnet
19	White	Not used in Classnet
20	Black	Audio Right
21	Violet	Audio Left
22	Magenta (Blue)	Printer RXD
23	Green	Printer TXD
24	Pink	Audio Bus 1
25	Dark Green	Audio Bus 1

Connecting the Terminator

Install a Terminator (P/N 5CB10117), as Figure 4-8 illustrates, at both ends of the System Line. A Terminator is a connector that includes 75Ω resistors. These resistors absorb any signals that reach the end of the cable and prevent them from reflecting back into the cable and causing interference.

To connect a Terminator

- Connect a Terminator's DB25M connector to the DB25F *System* port on the rear panel of the first and last Units in the chain. See Figures 4-8 and 4-9.



Figure 4-8: The Terminator (P/N 5CB10117)

System Connections

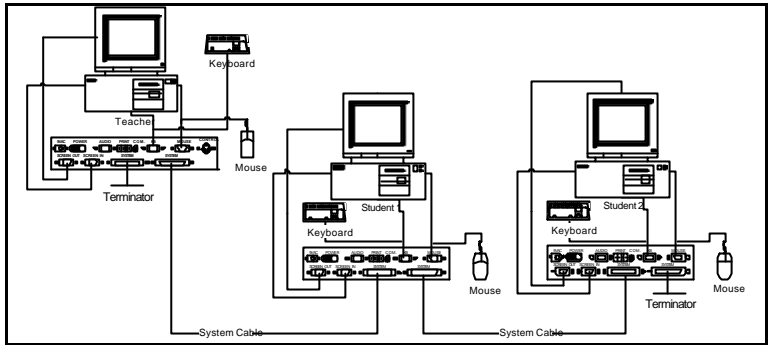


Figure 4-9 The Connection Diagram

Chapter 5: Connecting the System

Chapter 5 discusses:

- ◆ Hardware – Connecting the T.C.U.
 - ◆ Software – Connecting the C.I.U.
-

What to Connect

You connect either a T.C.U. or a C.I.U.; not both.

Connecting the T.C.U.

The *Teacher Control Unit* (T.C.U.) lets you type in the Classnet functions. Figure 5-1 illustrates the T.C.U..



Figure 5-1: The T.C.U.

To connect the T.C.U.

- Connect the DIN5M connector of the Classnet Control cable, to the T.C.U.'s DIN5F connector, as page 4-6 explains.

Connecting the C.I.U.

The *Control Interface Unit* (C.I.U.) see Figure 5-2, is the hardware device letting you use the Control Panel Software.

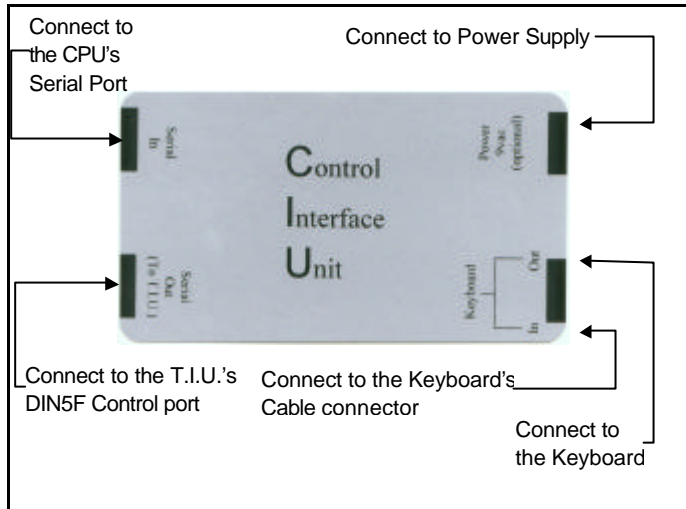


Figure 5-2: The C.I.U.

To connect the C.I.U.

1. Connect the C.I.U.'s Serial In port to the CPU's Serial port.
2. Connect the C.I.U.'s Serial Out port to the T.I.U.'s DIN5F Control port.
3. Connect the Power Adapter to the C.I.U.'s Power connector.
4. Connect the C.I.U.'s Keyboard In port to the I/O Adapter Cable's keyboard connector.
5. Connect the C.I.U.'s Keyboard Out port to the keyboard.

Connecting the System

Figure 5-3 below illustrates the C.I.U connections.

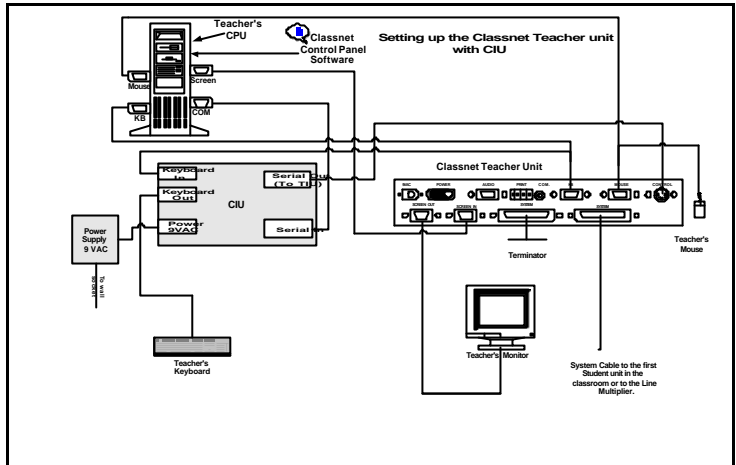


Figure 5-3 The C.I.U. Connections

Appendix A: Technical Specifications

Resolution

<p>Transfer supports up to 1024 x 768 SVGA Video Bandwidth: Not less than 100 MHz</p>

Maximum Number of Units

<p>Regular configuration: 63 Special configuration: 99</p>
--

System Requirements

Keyboard	PC/AT, PS/2 (DIN5 or MiniDIN6)
Mouse	PC/AT, PS/2 (DB9 or MiniDIN6)
Video	SVGA, VGA, or XGA (HD15)
Temperature	0° to 40° Celsius For extended environmental conditions, contact us
Humidity	0% to 85% non-condensing

TIU

Dimensions	46 mm x 222.5 mm x 162 mm 1.81" x 8.76" x 6.38"
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SIU

Dimensions	46 mm x 198 mm x 162 mm 1.81" x 7.80" x 6.38"
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Technical Specifications

TCU

Dimensions	81 mm x 197 mm x 207 mm 3.19" x 7.78" x 8.16"
<u>CIU</u>	
Dimensions	32 mm x 142.5 mm x 82 mm 1.26" x 5.61" x 3.25"

System Cable Specification

DB25 Coaxial Cable

Appendix B: Classnet 3.15 Version Product Line

Classnet 3.15 Teacher Position

Order Code	Details and Description
0CL12001	CLASSNET TEACHER UNIT 220V AT
0CL12002	CLASSNET TEACHER UNIT 220V PS/2
0CL12003	CLASSNET TEACHER UNIT 220V AT+PS/2
0CL12004	CLASSNET TEACHER UNIT 110V AT
0CL12005	CLASSNET TEACHER UNIT 110V PS/2
0CL12006	CLASSNET TEACHER UNIT 110V AT+PS/2

Classnet 3.15 Student Position

Order Code	Details and Description
0CL11001	CLASSNET 3.15 STUDENT UNIT 220V AT
0CL11002	CLASSNET 3.15 STUDENT UNIT 220V PS/2
0CL11003	CLASSNET STUDENT UNIT 220V AT+PS/2
0CL11004	CLASSNET STUDENT UNIT 110V AT
0CL11005	CLASSNET STUDENT UNIT 110V PS/2
0CL11006	CLASSNET STUDENT UNIT 110V AT+PS/2

Accessories and Cables for Classnet 3.15

Order Code	Details and Description
0CL61001	AUDIO/INTERCOM FOR CLASSNET 3.15
5AC00168	HEADSET/MICROPHONE
1CL13005	TEACHER CONTROL UNIT 3.15 UP TO 99 STUDENTS
0CL61004	LINE BOOSTER 220V
0CL61005	LINE BOOSTER 110V
0CL61006	LINE MULTIPLIER 4 PORTS 220V
0CL61007	LINE MULTIPLIER 4 PORTS 110V
5AC40004	SET OF CLASSNET DESK BRACKET (2 UNITS)
5CB40082	SYSTEM CABLE 2 M/6FT
5CB40032	SYSTEM CABLE NO CONNECTORS

Product Line

5CB10033	CABLE TCU DIN5M-DIN5M=1.75M
5CB10049	CABLE Y KB-PS DB9M -MINIDIN6F=0.17M/MIDI
5CB10050	CABLE Y KB-PC DB9M -DIN5F=0.17M/DIN5M=1.
5CB10053	CABLE Y MS-PS CL315DB9F -MINIDIN6F=0.17M
5CB10055	CABLE Y MS-PC9 CL315 DB9F - DB9F=1.5M/DB9M=0.17M
5CB40056	SCREEN CABLE VGA HD15F-HD15M=1.5M
5CB10117	TERMINATOR DB25M
0CL11007	SYSTEM CABLE CONNECTOR (SET OF 2)

Index

C

CIU, A-2
Connecting the Units, 4-1

I

Introduction, 1-1

O

Operating Classnet, 2-3
Overview, 2-1

P

Pre-Installation Tips, 4-1
Product Line, B-1

R

Resolution, A-1

S

S.I.U., 3-2, A-1
Setting the Dipswitches, 3-5
System Cable, A-2
System Connections, 4-1
System Requirements, A-1

T

T.I.U., 3-1, A-1
TCU, A-1
Technical Specifications, A-1
Terminology, 1-2
The Units, 3-1