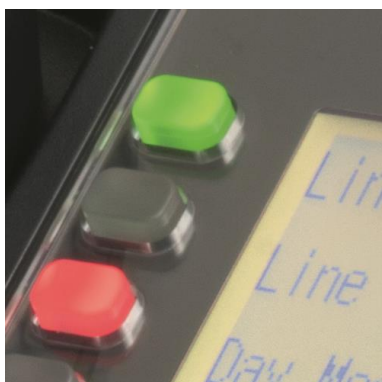


# The SL2100

## Quick Install Guide:

### Terminals

### Type B (2w)



[www.nec-enterprise.com](http://www.nec-enterprise.com)

This guide explains the installation, configuration and operation of the SL2100 Type B Terminals (2 wire) including the audio and relay connections of the interface card.

Further information is available on BusinessNet.

Please keep all information supplied for future reference.

#### Regulatory Notice.

Refer to the Declaration of Conformity, Regulatory and Safety Considerations shown in the SL2100 Hardware Manual.

Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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## Digital Type B Terminals

The SL2100 system consists of a chassis unit that supports the installation of either Type A or Type B digital terminals, as only one terminal type can be installed there are separate Quick Install Guides for each.

This guide details the installation of Type B terminals.

Refer to the following Quick Install Guide for other terminals:




- Quick Install Guide – Digital Terminals Type A
- Quick Install Guide – IP Terminal 8IPLD
- Quick Install Guide – IP Terminals DT820

Digital Terminal	Connect to interface card	Terminal wiring
Type A	IP7WW-308U-A1 or IP7WW-008U-C1	4 wire connection
Type B	IP7WW-082U-B1	2 wire connection



This guide also includes details of installing the external Music on Hold, Background Music, Paging and Relay connections as these are provided by the interface card.

### SL2100 Type B Digital Terminals

	12 Button	24 Button	60 Button DSS
			
Part code & description	BE116515 IP7WW-12TXH-B1 TEL	BE116516 IP7WW-24TXH-B1 TEL	BE116519 IP7WW-60D-B1 CONSOLE
Connected to	Digital Extension Port		
Power feeding	From digital extension port		
Colour	Black		
Display	24 digits x 3 lines with backlight		None
Programmable keys	12 (red/green)	24 (red/green)	60 (red/green)
Soft keys	4		None
Menu curser keys	Yes		No
Incoming call lamp	Yes (red/green)		No
Handsfree	Yes (full duplex)		No
Backlit dial pad	No		
Headset Port	Yes (RJ11 connector)		No
EHS support	Yes (using WHA BE113158)		No
Angle Adjustment	Yes (2 steps)		
Wall Mounting	Yes (built in)		

**Parts available for the SL2100**

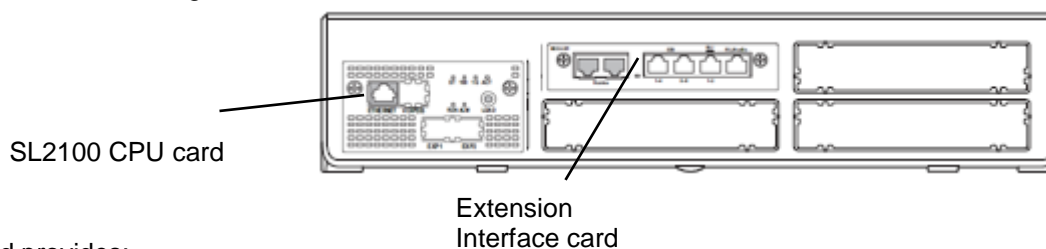
Not all parts are included within this guide, please refer to the other SL2100 Quick Install Guides or the SL2100 Hardware Manual for a full description and installation instructions of all parts available.

IP7WW-4KSU-C1	SL1100 Chassis unit	
IP7EU-CPU-C1	SL2100 CPU card	
IP7EU-CPU-C1-A	SL2100 CPU card with pre-installed IP licenses and 2hour InMail	
IP7WW-082U-B1	8 Digital Extension (2wire) and 2 SLT extension card	8 digital and 2 SLT extension interfaces, max 3 per unit
IP7WW-008U-C1	8 Hybrid Extensions card for digital (4wire) extensions or SLT extension	8 SLT extension interfaces, max 4 per unit
IP7WW-12TXH-B1 TEL (BK)	12 Keys, Digital (2W) Multiline Terminal (Black)	
IP7WW-24TXH-B1 TEL (BK)	24 Keys, Digital (2W) Multiline Terminal (Black)	
IP7WW-60D DSS-B1 CONSOLE (BK)	60 Keys, Digital (2W) DSS Console (Black)	
DX7NA-WHA-A1	Cordless Headset Adapter	
DX4NA Doorphone	Doorphone	

Refer to Prophix for all parts and licenses available in your region.

## IP7WW-082U-B1 Interface Card

SL2100 chassis showing the CPU card with an extension interface card installed.



The card provides:

- 8 x Digital extension ports
- 2 x Analogue SLT extensions ports
- 1 x Connector for mounting a trunk daughter card
- 1 x External Music on Hold/Background Music audio input
- 1 x External Paging audio output
- 2 x Relay contacts (for external device or door lock control)

The card can be installed into any of the universal slots S1~S3.

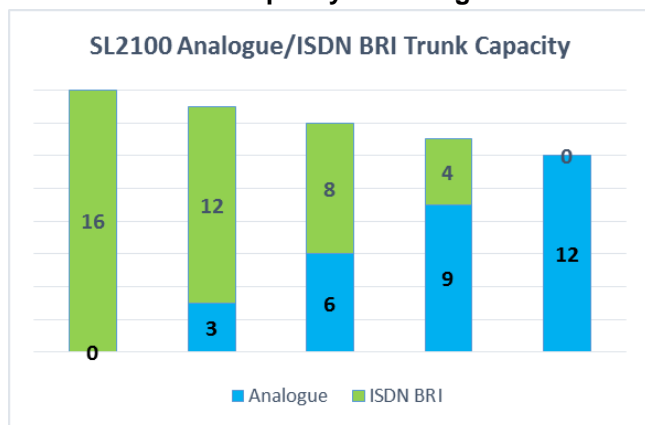
*Note – Slot S4 does not support digital extensions, an IP7WW-082U-B1 card can be installed but will only support the two analogue extensions and any trunk daughter card.*

### SL2100 Capacity

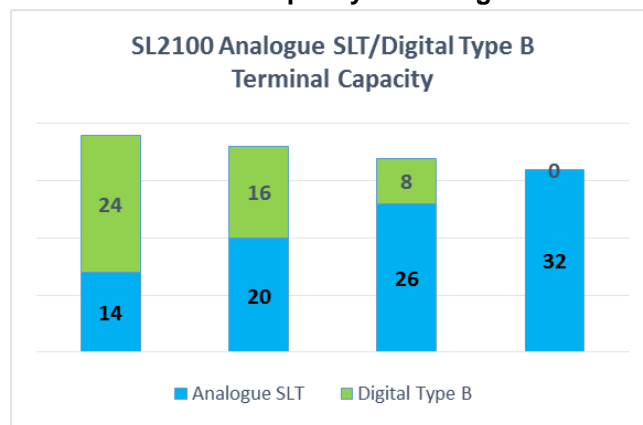
Item	Maximum capacity in a single chassis	
<b>TDM Trunks</b>	<b>42</b>	There is a trade-off between each trunk type, see below
Analogue	12	
ISDN BRI	16	
ISDN PRI	30	
<b>TDM Extensions</b>	<b>32</b>	There is a trade-off between each extension type, see below
Analogue SLT	32	
Digital	24	
<b>Maximum IP</b>	<b>176</b>	IP capacity is independent of the TDM capacity
IP Trunks	64	
IP Extensions	112	
External Music on Hold	1	
External Background Music	1	
External Paging	3	
Relays	6	

Trade-off between TDM interfaces (for simplicity does not include PRI trunks, Refer to the Quick Install Guide for PRI trunk capacity).

#### SL2100 Trunk capacity for a single chassis



#### SL2100 Terminal capacity for a single chassis



## **1- Unpack the IP7WW-082U-B1 Card**

### **SL2100 Extension Interface card**

1 x Interface card

Additional Items Required:

- Cross head screwdriver.
- Utility knife or small cutters to remove the plastic knockouts
- Solid wire for extending telephone cabling:  
Recommended cable type: Twisted pair (CW1308 or similar specification)  
Conductor diameter: 0.4 to 0.6 mm  
Maximum cable length: (with 0.5 mm diameter cable)  
SL2100 system telephone – 300 metres  
Normal telephone (SLT) – 1125 metres

## 2- Install the IP7WW-082U-B1 Card

The SL2100 chassis does not have any cards pre-installed, you install the extension interface card of your choice.

! Ensure the SL2100 is powered off before removing/installing any card.

You may also have a trunk daughter card to mount onto the IP7WW-082U-B1 card, refer to the Quick Install Guide for the trunk card type for installation details.

The following trunk daughter cards may be mounted

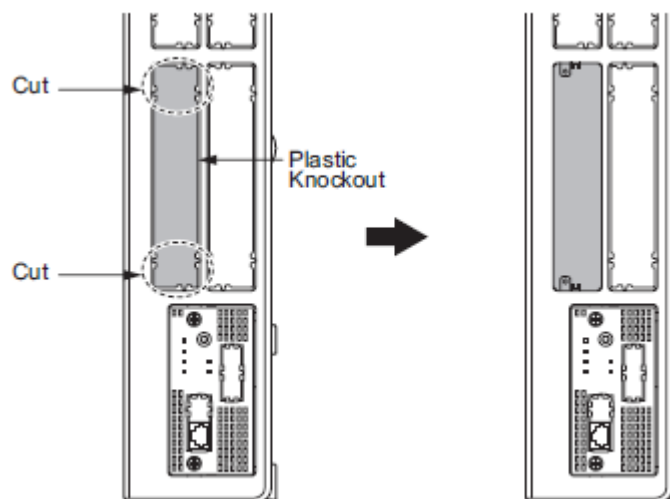
IP7WW-3COIDB-C1	3 Analogue trunks
IP7WW-2BRIDB-C1	2 ISDN BRI circuits (4 trunk channels)
IP7WW-1PRIDB-C1	1 ISDN PRI circuit (30 trunk channels)

Each IP7WW-082U-B1 card can have one daughter card mounted.

*If you are connecting a doorphone unit then you must set the hardware links before mounting a trunk daughter card and installing the card into the chassis, refer to the Doorphone section later in this guide.*

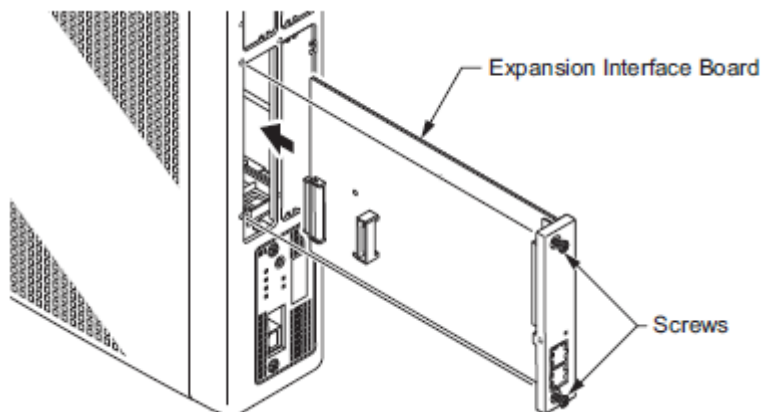
*Note – Slot 4 does not support digital extensions, an IP7WW-082U-B1 card can be installed but will only support analogue extensions, any trunk daughter card is supported in slot 4.*

Remove the plastic knockout from the slot on the front of the SL2100 chassis.



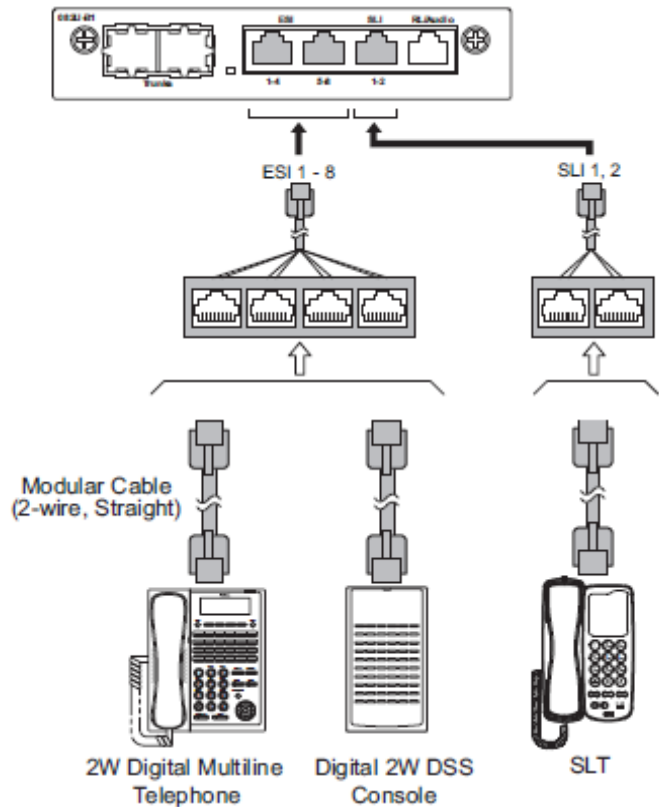
Note – the knockout can not be replaced once removed; there are no blanking covers available, be sure to remove the correct knockout.

Insert the interface card into the SL2100 universal slot, ensure the card slides into the guide rails and tighten the two screws to secure the card.



### 3- Connect the Telephones

The connectors of the IP7WW-082U-B1 card have multiple extension ports per RJ45 connector using the RJ61 pin-out format.

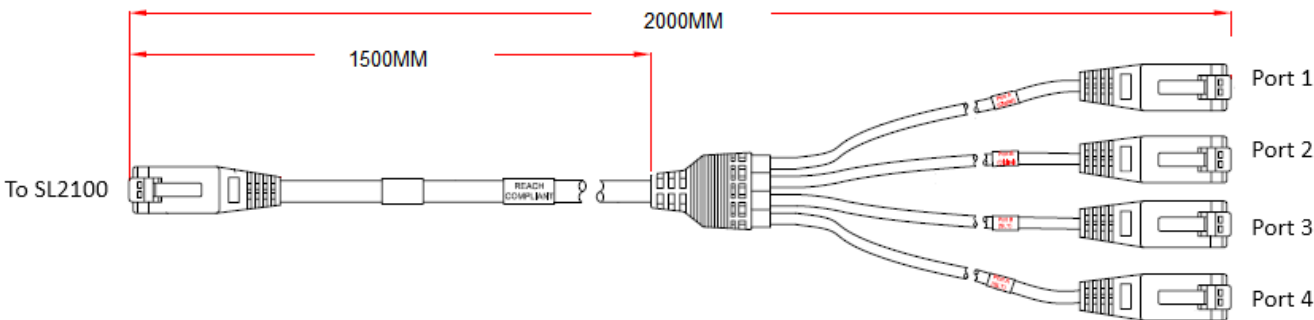


#### Connecting to the RJ45 sockets of the IP7WW-082U-B1 card

There are several methods available to connect these interfaces into the customer's building infrastructure.

1. Use the cable assembly, adapter or panel available from NEC

**Cable LPNEC4** – 2m length, converts a four port RJ45 socket to four RJ45 plugs, one port per plug.



Can be used to connect into an RJ45 through coupler panel or directly into the customer's panels.

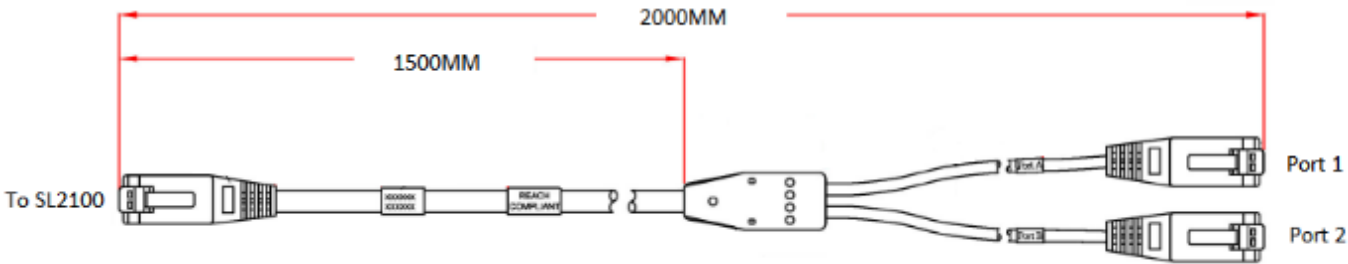
Can also be used to plug into RJ45 face plates if IDC termination is required.

Cable colour: black

One cable is required for each ESI socket of the IP7WW-082U-B1 card.

Ports 1~4 RJ45 plug	
Pin	
1	-
2	-
3	-
4	R
5	T
6	-
7	-
8	-

**Cable LPNEC2** – 2m length, converts a two port RJ45 socket to two RJ45 plugs, one port per plug.



Can be used to connect into an RJ45 through coupler panel or directly into the customer's panels.  
Can also be used to plug into RJ45 face plates if IDC termination is required.  
Cable colour: black

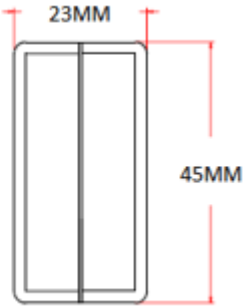
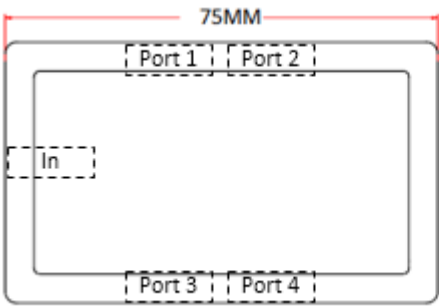
One cable is required for the SLI socket of the IP7WW-082U-B1 card.

Ports 1~2 RJ45 plug	
Pin	
1	-
2	-
3	-
4	R
5	T
6	-
7	-
8	-

**Adapter ADNEC14** – Converts a four port RJ45 socket to four RJ45 sockets, one port per socket.  
Requires five patch cables of the desired length and colour.  
Can be used to connect into an RJ45 through coupler panel or directly into the customer's panels.  
Can also be used to plug into RJ45 face plates if IDC termination is required.  
Colour: black  
Supplied with an adhesive pad.

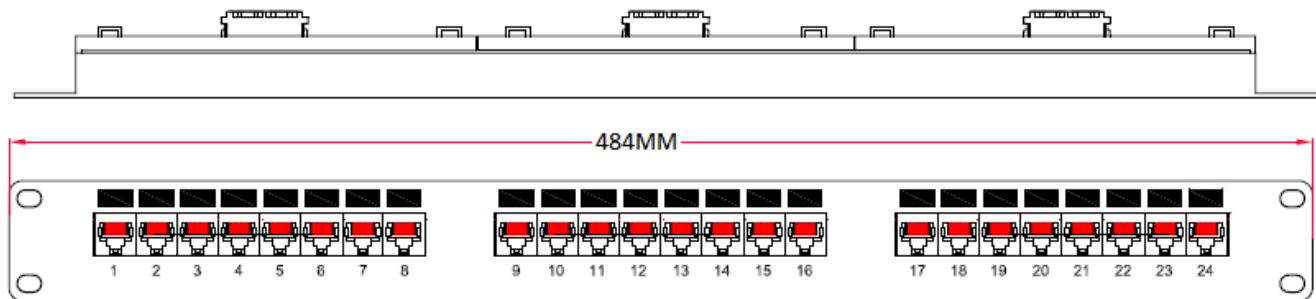
One adapter is required for each ESI and SLI socket of the IP7WW-082U-B1 card.

Ports 1~4 RJ45 sockets	
Pin	
1	-
2	-
3	-
4	R
5	T
6	-
7	-
8	-



**16/24/40 Port Panels FFV16NECBK/FFV24NECBK/FFNEC50**

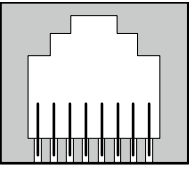
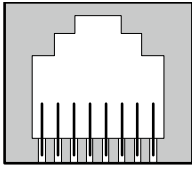
Converts 4/6/12 RJ45 sockets to 16/24/40 RJ45 sockets, one port per socket.  
Requires 4/6/12 patch cables of the desired length and colour to connect to the SL2100 plus 16/24/40 patch cables to connect into the customer's panels.  
Colour: black  
Can be used for the ESI, SLI and Audio sockets of the IP7WW-082U-B1 card.  
Note – when used for the two port SLI socket only ports 1~2 will be used.



Ports 1~16/24/40 RJ45 sockets	
Pin	
1	-
2	-
3	-
4	R
5	T
6	-
7	-
8	-

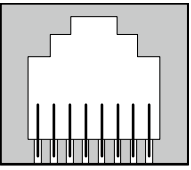
2. Terminate cables on site with RJ45 plugs and connect directly to the RJ45 sockets of the IP7WW-082U-B1 card.

Use the following pin-out to terminate each RJ45 plug.

ESI 1-4 ESI 5-8	Pin No.	Port	SLI 1-2	Pin No.	Port
	1	4		1	
	2	3		2	
	3	2		3	2
	4	1		4	1
	5	1		5	1
	6	2		6	2
	7	3		7	
	8	4		8	

3. Use pre-terminated RJ45 patch cables and connect directly to the RJ45 sockets of the IP7WW-082U-B1 card.

Use the following cable colours when using a straight through RJ45 patch cable directly into the RJ45 sockets of the IP7WW-082U-B1 card.

ESI 1-4 ESI 5-8	Pin No.	Port	Using an RJ45 patch cable into the RJ45 connectors	SLI 1-2
			RJ45 Colour code	Port
	1	4	White/Orange	
	2	3	Orange/White	
	3	2	White/Green	2
	4	1	Blue/White	1
	5	1	White/Blue	1
	6	2	Green/White	2
	7	3	White/Brown	
	8	4	Brown/White	

#### Terminating extensions at RJ11 or RJ45 face plates at the user's desk.

Each port connects to

RJ11 = Connections 3 & 4

RJ45 = Blue/White connections

Each port connects to

RJ11 = Connections 3/4

RJ11 Face plate	
Pin	Connection
1	-
2	-
3	R
4	T
5	-
6	-

RJ45 = Blue/White connections

RJ45 Face plate	
Pin	Connection
1	-
2	-
3	-
4	R
5	T
6	-
7	-
8	-

4- Connect DSS Consoles

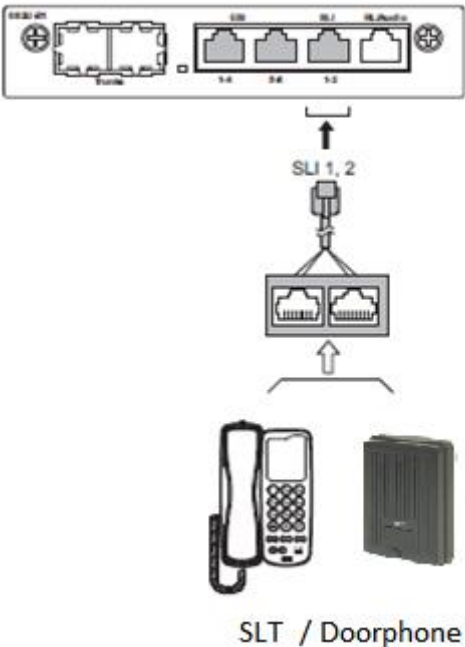
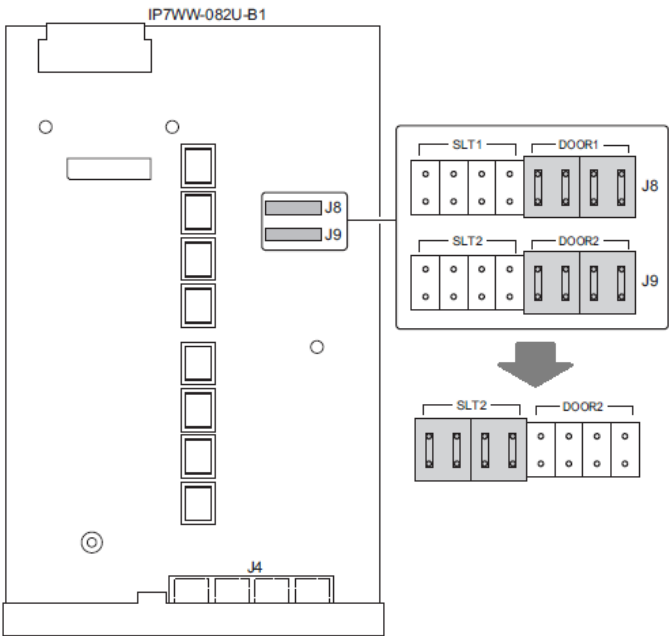
Up to eight DSS consoles can be connected to the eight digital extension ports of the IP7WW-082U-B1 card. The maximum system capacity is 12 consoles. Each DSS console is assigned to a digital extension with PCPro, up to 4 consoles can be assigned to the same extension.

5- Connect Doorphones

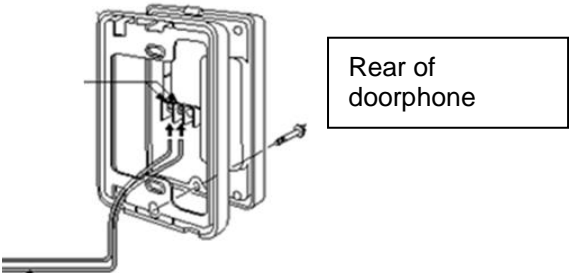
Up to two doorphones (BE109741 – DX7NA) can be connected to the analogue extension ports of the IP7WW-082U-B1 card. The maximum system capacity is 6 doorphones.

Each analogue port of the IP7WW-082U-B1 card has hardware links to select SLT/doorphone operation. The factory setting is SLT operation. Ensure you set the hardware links as shown.

The hardware links set the mode, there is no additional system configuration required to select SLT/doorphone operation  
  
You will need to remove any trunk daughter card to access the hardware links.



Terminating at the **doorphone**  
Each port connects to: & at the doorphone.  
The connections to the doorphone are none polarity.



Pin	SLI 1-2 RJ45 socket
1	-
2	-
3	Door 2 T
4	Door 1 R
5	Door 1 T
6	Door 2 R
7	-
8	-

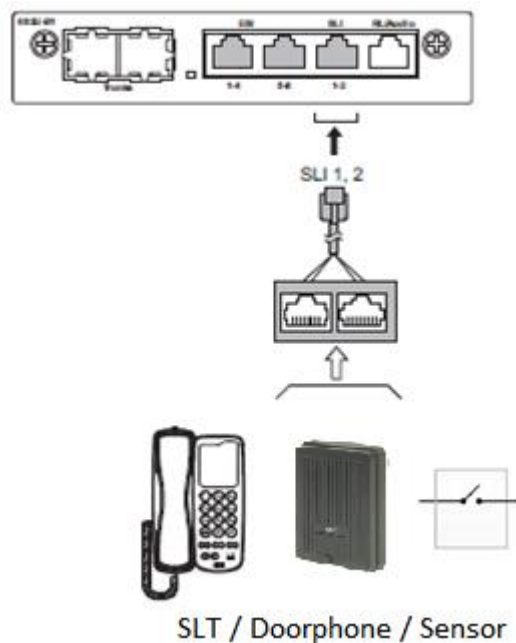
## 6- Connect External Sensors

The SL2100 can be used to detect the operation of external sensors by connecting to the analogue extension port that is set to doorphone mode.

The external sensor can be any normally open contact (Form A) for example, push button/panic switch or PIR detector with a suitable specification.

When the external sensor is closed/activated the SL2100 system will ring a group of extensions in the same way as the doorphone would.

Pin	SLI 1-2 RJ45 socket
1	-
2	-
3	Door / sensor 2 T
4	Door / sensor 1 R
5	Door / sensor 1 T
6	Door / sensor 2 R
7	-
8	-



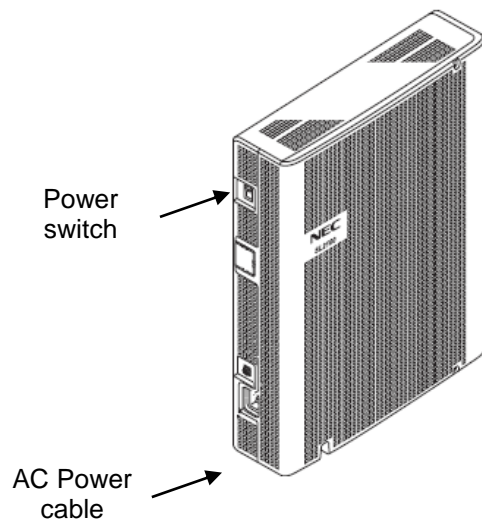
Description	Specification
External sensor	Voltage during sensor off (contact open): 25V Loop current during sensor on/activated (contact closed) : 40mA

## **7- Connect the Power & System Start Up**

The power cable is plugged into the left side (wall mounted) or rear (when rack mounted) of the unit via an IEC-C13 connector.

Before connecting the power:

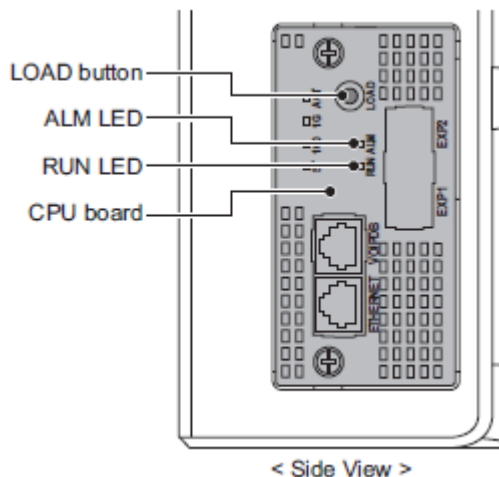
- Ensure the power switch is OFF
- Ensure the power is switched off at the source
- All cards are installed and secured correctly



### **System Start Up – First Time**

! The first time you start up the SL2100 it is important to clear the system memory. This will ensure that the system is set to the default/factory configuration.

1. Push and hold the LOAD Button located on the front of the CPU card.



Also referred to as '**COLD Start**' can also be used at any time to delete the customer's configuration.

Warning – COLD Start should only be used when you want to delete the customer's configuration from the SL2100 CPU card.

2. Turn the power switch on
3. Continue holding the LOAD Button for approximately 10 seconds or until the ALM lamp on the CPU card lights.
4. Release the LOAD Button
5. When the system has completed reloading the system software (about one minute) the RUN LED is flashing green on the CPU card and the system phones will display the Time and Date.

### Switching the SL2100 OFF

! Be sure that no calls are in progress otherwise they will be cut off.

Turn the power switch OFF at the SL2100 chassis.

### System Start Up – Retain Customer Configuration

This is the normal operation for powering the SL2100 on.

Turn the power switch ON at the SL2100 chassis.

Any new installed cards will be automatically detected.

## **8- Configure the SL2100**

This Quick Install guide will cover the most frequently used configuration options. For advanced configuration please refer to the SL2100 Features and Specifications manual.

You must have SL2100 PCPro installed to your laptop/PC, this can be downloaded from BusinessNet, refer to the Quick Install Guide – SL2100 PCpro.

The SL2100 can also be configured via an SL2100 System phone or via a WebPro interface, these are not included within this guide.

Before you configure your system it is important that you:

- Have a diagram of your exchange lines and telephones.
- Plan your requirements before you start.

While you configure your system it is advised that you:

- Make a record of your configuration as you make each change.
- Make small changes, upload to the SL2100 and test the changes. Avoid making all your changes at once as this can make testing more difficult.

With the default/factory settings:

- Each telephone will function and is assigned an extension number (200~211).
- Calls received on the exchange lines will ring at telephone number 200.
- Each telephone can make exchange line calls by dialing 0.
- Each exchange line is presented at a Function Key with busy lamp indication.

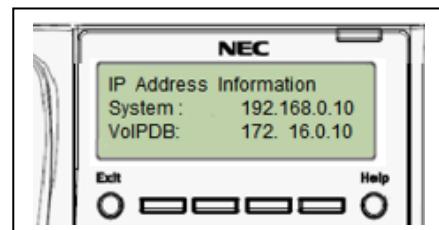
### **Connecting PCPro to the SL2100**

CPU Default IP Address:

192.168.0.10 / 255.255.255.0

You can check the IP address at any SL2100 system phone:

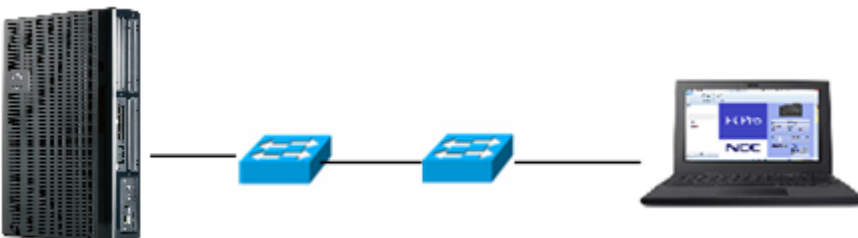
Press the centre Navigation Key and dial 841



Direct to Ethernet connector on the SL2100 CPU card.



Via the customer's LAN.



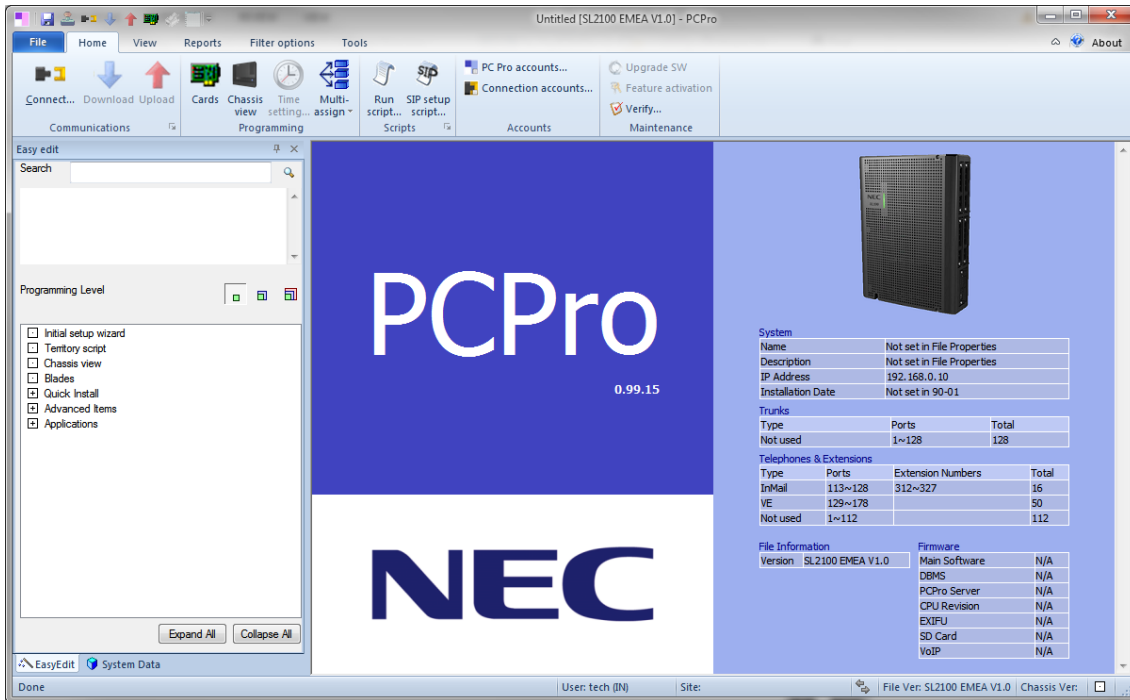
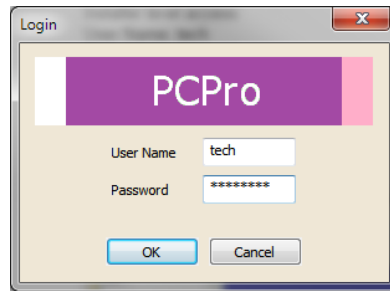
## Configure the SL2100

### SL2100 PCPro

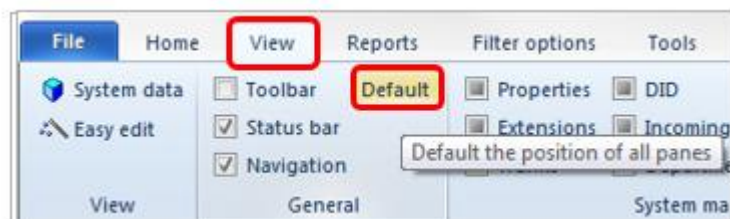
Installer level access:

User Name: tech

Password: 12345678



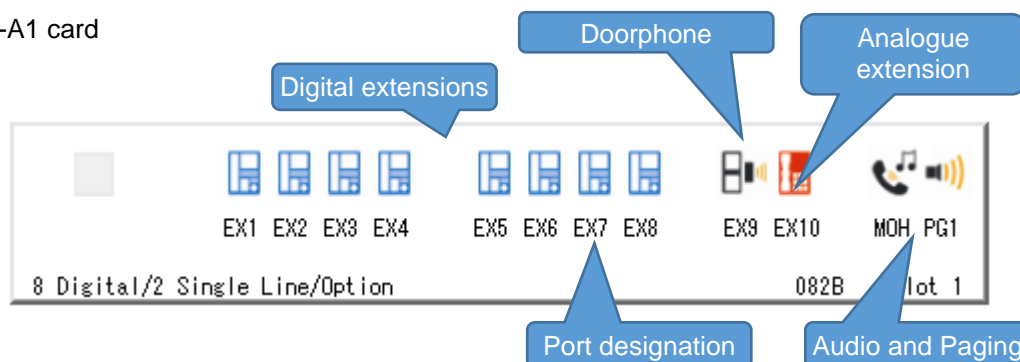
On first install you may need to setup the default sliding panes if you wish to use these. Select **View** tab and click **Default**



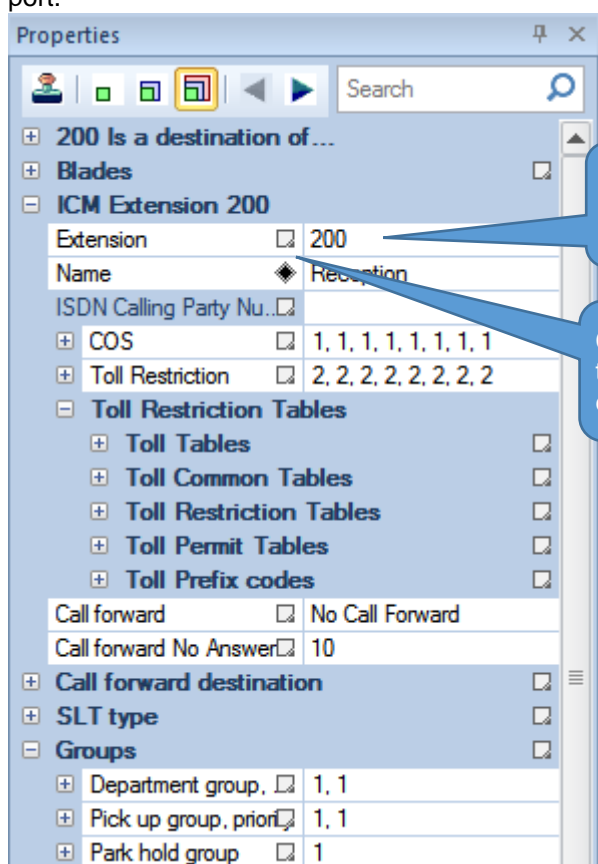
## Port Assignment of the IP7WW-082U-B1 card

Go to the Chassis View to confirm the ports assigned to the cards installed within the SL2100 system.

IP7WW-308U-A1 card



Clicking on any of the interfaces will show the appropriate Properties Pane where you can configure the selected port.



Edit each item within the Properties pane

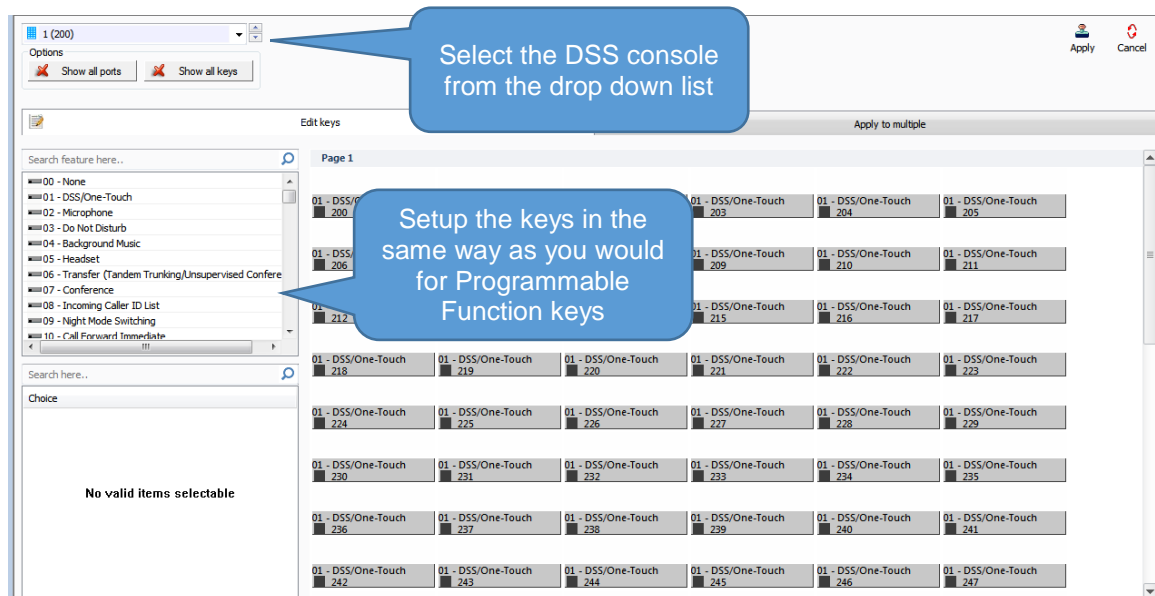
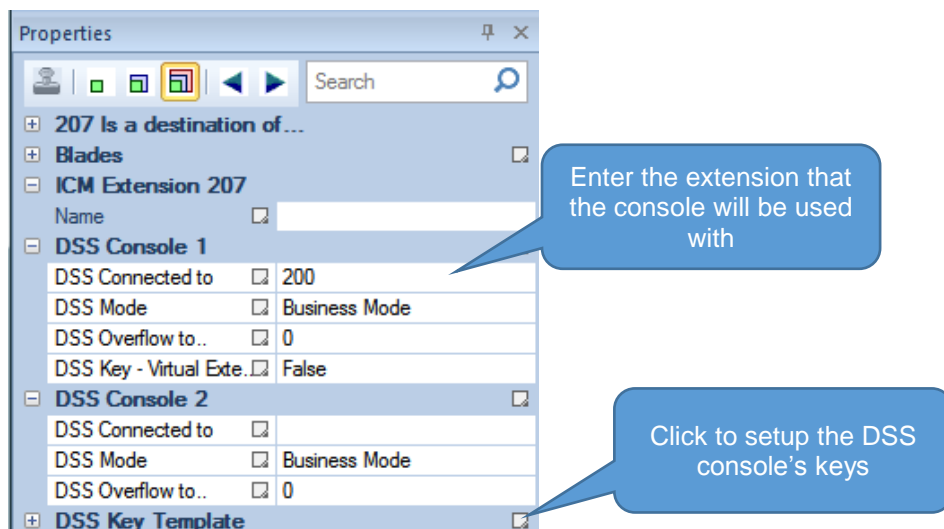
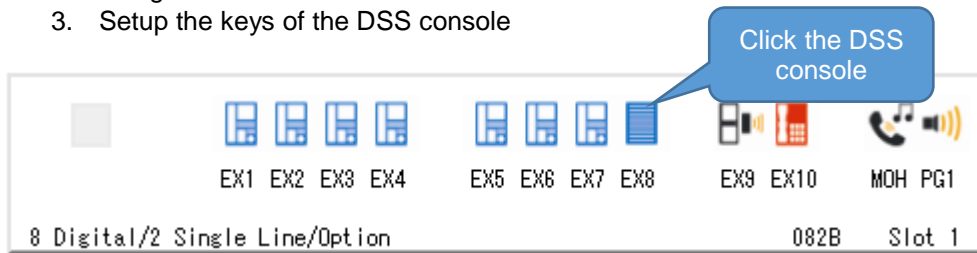
Click the Extension button to open the Easy Edit screen to edit all extension names and numbers

Station Port	Extension	Name
001	200	
002	201	
003	202	
004	203	
005	204	
006	205	
007	206	
008	207	
009	208	

## DSS Console and Operator

One DSS consoles can be connected to any digital extension port of the IP7WW-082U-B1 card. The SL2100 will automatically detect the DSS console when it's connected.

1. Go to the Chassis View and click the DSS console.
2. Assign the console to the extension that it will be used with
3. Setup the keys of the DSS console



## Operator Extension

The Operator pilot number (usually 0 or 9) is setup within the PCPro Initial Setup wizard.

You can check/edit the Operator number within Easy Edit-System Numbering Plan-System Numbering (you will need to select level 3 details view).

Select level 3 details view

Select System Numbering

Select the Operator pilot number

1st Dial Digit	1st and 2nd Dial Digits	Dial Digit Length	Type
<all>	<all>	<all>	<all>
8	8*	0	Not Used
8	8#	0	Not Used
9	9x	1	Operator access
9	91	0	Not Used
9	92	0	Not Used
9	93	0	Not Used
9	94	0	Not Used
9	95	0	Not Used
9	96	0	Not Used
9	97	0	Not Used
9	98	0	Not Used
9	99	0	Not Used
9	90	0	Not Used
9	9*	0	Not Used
9	9#	0	Not Used

The Operator extension that is the target of the pilot number is defined in Easy Edit-System Numbering-Default Operator

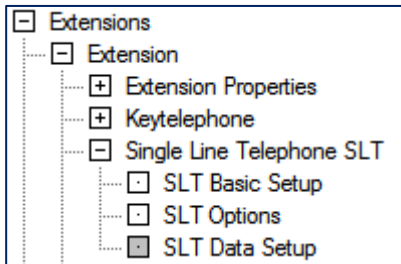
Select Default Operator

Enter the extension number for the Operator

Operator	Extension	Operator Console	Operator Access Mode
01	200	Normal Key Set	Step Call
02		Normal Key Set	
03			
04			
05		Normal Key Set	
06		Normal Key Set	
07		Normal Key Set	
08		Normal Key Set	
09		Normal Key Set	
10		Normal Key Set	

## Analogue Extensions

Timers for analogue extensions are setup in Easy Edit-Extensions-Extension-Single Line Telephone SLT-SLT Data Setup



The following timers are available.

Companding Method Type	A-law
Ringing Frequency	25Hz
Minimum Break Time	2
Maximum Break Time	10
Minimum Make Time	2
Maximum Make Time	20
Minimum Hook-flash Time	10
Maximum Hook-flash Time	20
Minimum Ground-flash Time	21
Minimum Off-hook Time	19
No Detection Time after Off-hook	60
No Detection Time after Pulse Dial Detection	70
Loop Disconnect Time after Reversal Time	60
Ring Message Wait Period	150

These are not timers and should be set as follows:

- **Companding Method Type** - Select the codec type for the SLT - A law or u-law  
Set this to A-Law
- **Ringing Frequency** - Select the ringing frequency, 25Hz, 20Hz or 16Hz.  
Set this to 25Hz

### Calculating the timer setting

Description	Setting	Timer setting
Minimum Break Time	1~255	5~1275mS [5mS increment]
Maximum Break Time	1~255	5~1275mS [5mS increment]
Minimum Make Time	1~255	5~1275mS [5mS increment]
Maximum Make Time	1~255	5~1275mS [5mS increment]
Minimum Hook Flash Time	1~255	5~1275mS [5mS increment]
Maximum Hook Flash Time	1~255	5~1275mS [5mS increment]
Minimum Ground-flash Time	1~255	5~1275mS [5mS increment]
Minimum Off-hook Time	1~255	5~1275mS [5mS increment]
No Detection Time after Off-hook	1~255	5~1275mS [5mS increment]
No Detection Time after Pulse Dial Detection	1~255	5~1275mS [5mS increment]
Loop Disconnect Time after Reversal Time	1~255	10~2550mS [10mS increment]
Ring Message Wait Period	1~255	5~1275mS [5mS increment]

**Default Timer Setting**

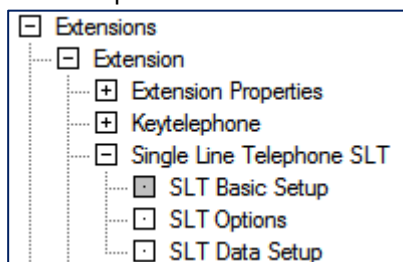
Description	Function	Default	
Minimum Break Time	The minimum duration of a dial pulse break	2 (10mS)	
Maximum Break Time	The maximum duration of a dial pulse break	10 (50mS)	For Time Break Recall detection set this timer to 13 (65mS). Do not set this item to less than 13 (65mS)
Minimum Make Time	The minimum duration of a dial pulse make	2 (10mS)	
Maximum Make Time	The maximum duration of a dial pulse make	20 (100mS)	
Minimum Hook Flash Time	The minimum duration of a Hook Flash/Time Break Recall TBR	10 (100mS)	For Time Break Recall detection set this timer to 14 (70mS).
Maximum Hook Flash Time	The maximum duration of a Hook Flash/Time Break Recall TBR	20 (100mS)	For Time Break Recall detection set this timer to 25 (125mS)
Minimum Ground-flash Time	The minimum duration of a ground flash	21 (105mS)	
Minimum Off-hook Time	The minimum time for an off-hook duration	19 (95mS)	
No Detection Time after Off-hook	The duration after off-hook before dialling will be accepted	60 (300mS)	
No Detection Time after Pulse Dial Detection	The maximum duration after each pulse	70 (350mS)	
Loop Disconnect Time after Reversal Time	The time after line reversal that a Loop Disconnect is recognised	60 (600mS)	
Ring Message Wait Period		150 (750mS)	

**Recommended Timer Setting**

Description	Setting	
Minimum Break Time	2 (10mS)	
Maximum Break Time	13 (65mS)	For Time Break Recall detection
Minimum Make Time	2 (10mS)	
Maximum Make Time	20 (100mS)	
Minimum Hook Flash Time	14 (70mS)	For Time Break Recall detection
Maximum Hook Flash Time	25 (125mS)	For Time Break Recall detection
Minimum Ground-flash Time	21 (105mS)	
Minimum Off-hook Time	19 (95mS)	
No Detection Time after Off-hook	60 (300mS)	
No Detection Time after Pulse Dial Detection	70 (350mS)	
Loop Disconnect Time after Reversal Time	60 (600mS)	
Ring Message Wait Period	150 (750mS)	

**Dial Pulse**

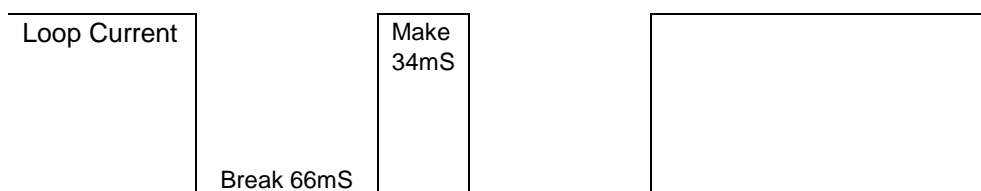
The signalling type can be setup for each SLT port within PCPro Easy Edit – Extensions – Extension – Single Line Telephone SLT – SLT Basic Setup.



Station Port	Extension	Name	Signaling Type
▶ 010	209	Extn 209	DP
011	210	Extn 210	DTMF

Signalling type for SLT's:  
DTMF or DP

Dial Pulse telephones are usually 10pps (pulses per second) with a break period of 66mS & make period of 34mS.



The default settings of the SL2100 will detect a break period between 10~100mS and a make period of 10~50mS.

Description	Function	Default	
<b>Minimum Break Time</b>	The minimum duration of a dial pulse break	2 (10mS)	
<b>Maximum Break Time</b>	The maximum duration of a dial pulse break	10 (50mS)	Set to 13 (65mS) when TBR is required
<b>Minimum Make Time</b>	The minimum duration of a dial pulse make	2 (10mS)	
<b>Maximum Make Time</b>	The maximum duration of a dial pulse make	20 (100mS)	

Note – The setting of the Maximum Break Time is reduced to 13 (65mS) to allow the detection of Timed Break Recall (TBR).

Note - You must set the Maximum Break Time for Dial Pulse to a value less than that of the Minimum Hook Flash Time otherwise the system will not detect Timed Break Recall.

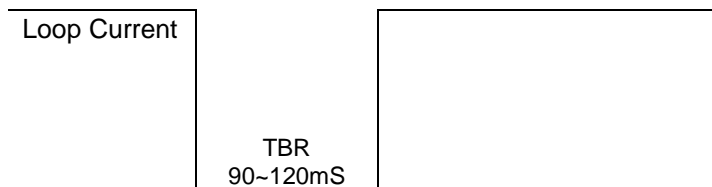
### **Timed Break Recall (TBR) / Hook Flash**

Timed Break Recall / Hook Flash is used by an SLT to signal to the SL2100 that secondary dial tone is required, for example to place the call on hold and dial another number when transferring a call.

The TBR button on an SLT is usually marked with **R** or **Recall** Note, some telephones may have the button marked with **FLASH**.

Hook Flash is not used in the EU and is usually a break period of greater than 500mS.

Timed Break Recall is typically 90~120mS, so the SL2100 must be setup to detect outside of this range.



The typical setting for the SL2100 is to detect a TBR within a 70~125mS period.

Description	Function	Setting	
<b>Maximum Break Time</b>	The maximum duration of a dial pulse break	13 (65mS)	For Time Break Recall detection set this timer to 13 (65mS).
<b>Minimum Hook Flash Time</b>	The minimum duration of a Hook Flash/Time Break Recall TBR	14 (70mS)	For Time Break Recall detection set this timer to 14 (70mS).
<b>Maximum Hook Flash Time</b>	The maximum duration of a Hook Flash/Time Break Recall TBR	25 (125mS)	For Time Break Recall detection set this timer to 25 (125mS)

Note – You must also set the Maximum Break Time for Dial Pulse to a value less than that of the Minimum Hook Flash Time otherwise the SL2100 will not detect TBR.

### **Ground Flash Recall (Earth Loop Recall)**

Ground Flash Recall is not covered in this guide.

It is not recommended that you change these timers from default.

<b>Minimum Ground-flash Time</b>	21 (105mS)
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### **Off Hook Detection Time**

These timers determine the duration the phone must be off hook before the SL1100 will begin sending dial tone.

It is not recommended that you change these timers from default.

Description	Function	Default
<b>Minimum Off-hook Time</b>	The minimum time for an off-hook duration	19 (95mS)
<b>No Detection Time after Off-hook</b>	The duration after off-hook before dialling will be accepted	60 (300mS)

### **Loop Disconnect Time after Reversal**

It is not recommended that you change this timer from default.

<b>Loop Disconnect Time after Reversal Time</b>	60 (600mS)
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### **Ring Message Wait Period**

It is not recommended that you change this timer from default.

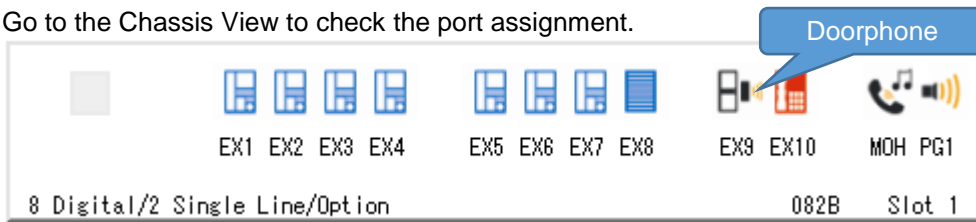
<b>Ring Message Wait Period</b>	150 (750mS)
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### **Doorphones and Door Lock Relay Contacts**

You can connect an NEC Doorphone unit to either analogue extension ports of the IP7WW-082U-B1 card (these ports can be either analogue telephone, Doorphone or External sensor).

The port is setup by hardware switched on the IP7WW-082U-B1 card, refer to the Quick Install Guide for MOH and External Audio for details.

Go to the Chassis View to check the port assignment.



Then click on the port you've assigned EX6 to show the Properties pane for doorphones, you can then name the doorphone and assign the phones that will ring in each mode.

### **What to do if you make errors within the SL2100 Configuration**

Errors that break configuration rules will be highlighted when you click the Apply button. The errors will usually show red or you will see a pop-up message depending which area you are configuring. Enter the correct value and re-apply. Then Upload your changes to the SL2100 and re-test.

Tip - Press F1 to get help within PCPro.

If you can't locate your errors within PCPro then you may need to default the SL2100 back to factory defaults and run the Initial Setup wizard again (this will only take a few minutes).

- Before doing this, download the current SL2100 configuration with PCPro and save the file to your PC, you may then be able to copy and paste the majority of your changes back in, eg the non-configuration effecting items like extension names, speed dials, programmable function keys etc.