

MCDI

EXPRECIUM

Récepteur d'alarmes
pour bus PCI

V030507

Récepteur d'Alarme Exprecium --- Guide d'Installation

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Récepteur d'Alarme Exprecium --- Guide d'Installation

IntroductionIntroduction

EXPRECIUM is a full format PC-based alarm receiver card. With two phone line per board, Exprecium gives you the power to turn your PC into a powerful alarm receiver. Starting with one board, you can add boards as your Central grows.

With large size memory, fast modem circuit, improved PC bus interface and Caller ID function, Exprecium adds a new dimension to Alarm Receiving and PC Integrated Monitoring Station.

The Exprecium receiver card carries a five year limited warranty.

Caractéristiques principalesCaractéristiques principales

- PCI bus interface, 2/3 length card.
- Plug & Play compatible with Dos, Windows 95 and Windows 98.
- Flash memory for easy firmware update, realtime clock, storage of events and parameters.
- 2 phone lines per card, direct printer output, on-board buzzer.
- May share PC with TLR and TLR+ Receiver Card.
- Supports most popular formats including SIA and Contact ID.
- Up to 1800 event buffer kept in a non volatile memory.
- No logical account limitation.
- and much more ...

Contraintes de systèmeContraintes de système

Ensure that your IBM PC-compatible computer has the following :

1. An Intel 486, Pentium, Pentium Pro, Pentium II, or compatible processor with a Plug & Play Bios.
2. 8Mb or more of system memory for DOS system. For Windows 95 or 98, minimum requirements recommended by Microsoft.
3. MSDOS 6.22, Windows 95 or Windows 98 operating systems.
4. An empty PCI expansion slot for each Exprecium Receiver Card to be installed.

Contenu du disque CD: Drivers & UtilitairesContenu du disque CD Drivers & Utilitaires

Windows 95 & 95 drivers :

OXMEP.SYS	OXMF.SYS	OXMF.VXD	OXMFUF.SYS	OXPCI.INF	OCPCI2.INF
OXSER.INF	OXSER.SYS	OXSER.VXD	OXSERUI.DLL	OXUI.DLL	

File name	Description
XPRECIUM.EXE	Configuration program to configure your Exprecium or upgrade itsfirmware. Can be used in DOS or Windows.
XPRECIUM.BIN	Binary file used to download firmware into the Exprecium card.
COMIRQ.EXE	Use to check specific Exprecium card in DOS environment. Allow you to see incoming raw signals received.
WINCOM.EXE	Same as COMIRQ but for Windows environment only.
WSCOM.EXE	Communication module to be used with SAMM10 and WINSAMM.

Installation de l'ExpreciumInstallation de l'Exprecium

1. Shut down the computer and remove the AC power cord.
2. Open the computer case to gain access to the inside. Touch the metal chassis of the computer to drain off any static electricity before touching a board. Static electricity can damage the components inside a computer or on a printed circuit board.
3. Locate an empty PCI expansion slot into which you will install the Exprecium card. The selected slot must support PCI Plug & Play devices. In most recent computers, all PCI slots have this ability. If you are not sure that your PC does, check the specification manual or contact your PC vendor. Remove the slot cover from the selected PCI slot. Retain the screw from the slot cover, you will need it to secure the Exprecium Card to the computer chassis.

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4. Remove the card from the anti-static bag. Record its serial number, you may be required to supply it in case of a support call. Holding the edge of the card, carefully align the edge connector with the expansion slot. Push the board into the slot firmly and evenly until it is fully seated inside the slot.
5. Visually inspect the connection. If it does not appear to be correct, remove and re-install the board. Secure the card to the computer's chassis using the screw removed in step 3.
6. You can close the computer case at this point or wait until everything is functioning properly.

Installation des drivers et utilitaires

DOS :DOS

There is no need to install any specific DOS driver. Once you start your computer, the Bios will automatically detect the new installed PCI card and assign a COM address and an IRQ to each card. Most PC displays a list of PCI devices installed at the power on. It may be necessary to press the PAUSE key to have a chance to look at it.

Here is an example :

PCI device listing ...					
Bus No.	Device No.	Func No.	Vendor ID	Device ID	Device class
<u>IRQ</u>					
0	7	1	8086	7111	IDE Controller
14					
0	7	2	8086	7112	Serial Bus Controller
11					
0	9	0	6234	0001	Simple COMM Controller
15					
0	9	0	6234	0001	Simple COMM Controller
5					
0	11	0	1142	643D	Display Controller
NA					
					ACPI Controller
9					

EXPRECIUM Vendor Number : 6234 Device ID : 0001

In above example, two Exprecium Receiver cards are installed. One with IRQ 15 and a second one with IRQ 5.

Notes : It is possible that your Bios assigns the same IRQ to more than one device. If your DOS application supports IRQ sharing this is not a problem. If your application does not have the ability to share IRQ's, try the following steps :

- Move the Exprecium card to another free PCI slot to get a different IRQ assignment.
- Free more IRQ's in your system by removing unused cards.
- Manually assign to the specific PCI slot a reserved IRQ in your Bios settings and install the Exprecium in that slot to avoid IRQ conflict. Refer to your PC manual or contact your service technician for more information on how to manually assign IRQ's.

The IRQ sharing issue is not a problem when using the Exprecium card under Windows 95 or 98 since Windows is managing IRQ's internally and has the ability to share them.

Use the configuration utility called XPRECIUM.EXE, located on the media coming with your Exprecium card, to set the specific options. See section SETTING UP YOUR EXPRECIUM CARD for more information.

COMIRQ :COMIRQ

Also a debugging tool is provided. It is called COMIRQ.EXE

To use it, type :

```
COMIRQ X0    look at incoming signals on the first Exprecium card or
COMIRQ X1    look at incoming signals on the second Exprecium card or
COMIRQ X2    look at incoming signals on the third Exprecium card
... etc.
```

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Here is an example of display provided by the COMIRQ utility :

```

COM D400 IRQ 5 : ANY INCOMING SIGNAL           Hit "Space Bar" to send ACK
-----
@<CR>
@<CR>
@<CR>
11:09 02/08 12 1234 51<CR>
11:09 02/08 12 1234 51<CR>
11:09 02/08 12 1234 51<CR>
11:09 02/08 12 1234 51<CR>
@<CR>
11:09 02/08 12 4378 066<CR>
11:10 02/08 12 4378 066<CR>
11:10 02/08 12 1234 51<CR>
@<CR>
@<CR>
-----
IRQ Number might Be Available : 3 5 10 11
<ESC> To exit --- <DEL> Clear screen --- Press "A" to enable <ACK>

```

The top line of the display indicates your Base address and IRQ setting. Press the letter "A" to acknowledge all signals. In the above example, the COM port address is D400 and the IRQ is 5. This is the information required to configure your DOS software.

Installation du Driver Windows 95: Installation du Driver Windows 95

1. Power up the computer and allow it to boot into Windows 95. Windows 95 detects that you have added new hardware (Exprecium receiver card). The New Hardware Found dialog displays : PC SERIAL CONTROLLER. The Add New Hardware Wizard will detect an : OXCB950 Cardbus UART.
2. Insert your Exprecium CDROM disk in your CDROM drive and **click NEXT** to continue.
3. When asked to : " Please insert the disk labeled 'High-performance ports driver disk' and then click OK ", **click OK** to continue.
4. The following message will be displayed : "The file 'oxmf.vxd' in high-performance ports driver disk could not be found", **click BROWSE**, in the Drive Section, **select your CDROM drive** then **click OK**.
5. The same dialog box will appear again. This time just **click OK**. Windows will complete the installation.

For each Exprecium card installed, Windows will create a new COM port starting at COM5 (COM1 to COM4 are reserved for your PC). The second card will be on COM6, the third one on COM7 and so on ...

Installation du Driver Windows 98 :

1. Power up the computer and allow it to boot into Windows 98. Windows 98 detects that you have added new hardware (Exprecium receiver card). The New Hardware Found dialog displays : PC SERIAL CONTROLLER. The Add New Hardware Wizard will detect an : OXCB950 Cardbus UART, **click NEXT** to continue.
2. When asked to specify how to install the driver, select SEARCH FOR THE BEST DRIVER FOR YOUR DEVICE, and then **click NEXT**.
3. Insert the CDROM DRIVERS & UTILITIES into the CDROM drive. In the Add New Hardware Wizard box, select CDROM DRIVES (as the location for the drivers) and **press NEXT**. The Install Disk dialog displays : ?\OXPCI.INF **press NEXT**.
4. Windows will copy and install the required drivers for your Exprecium card. **Click FINISH** to let Windows complete the process.

For each Exprecium card installed, Windows will create a new COM port starting at COM5 (COM1 to COM4 are reserved for your PC). The second card will be on COM6, the third one on COM7 and so on ...

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WINCOM :WINCOM

Within Windows, double click on the WINCOM icon.

Select SETTINGS and set the COM port to match the EXPRECIUM COM port. If you only have one Exprecium installed in your system, the COM port address should be COM5. Then click **OK**. Do not change other parameters since they are already set to match your Exprecium card.

Function of each button :

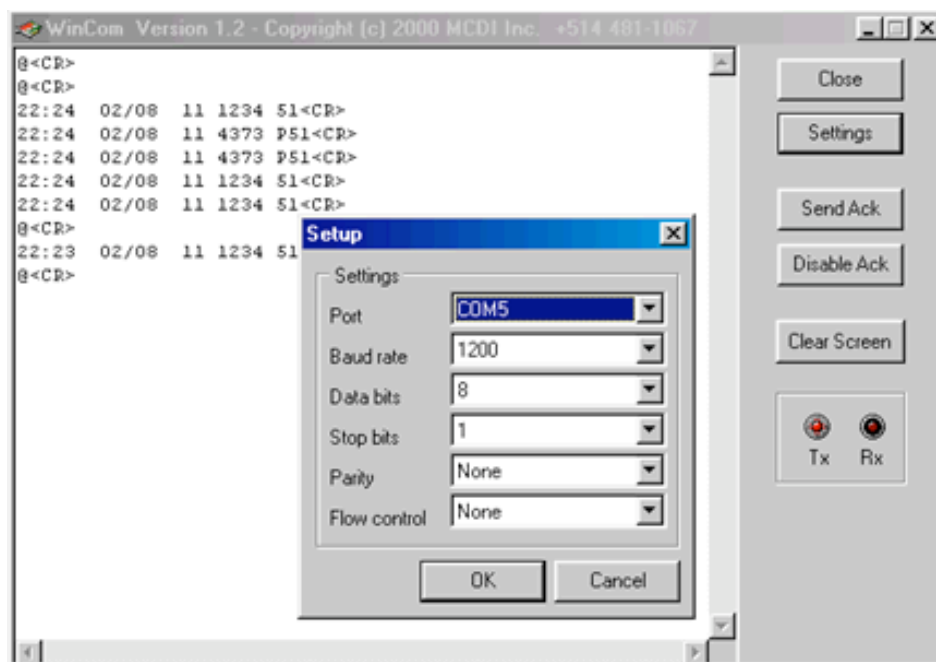
OPEN To start monitoring the selected port.

SETTINGS To select the proper COM port address to be viewed.

SEND ACK To acknowledge each signal one by one.

ENABLE ACK To acknowledge all signals

Use the CLEAR SCREEN button to clear the display.



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Paramétrer Exprecium Paramétrer Exprecium

There is no switches or jumpers to configure your card. All settings are done using the setup program called XPRECIUM.EXE (provided on the media coming with your card). This program works under DOS or Windows and can be executed from any disk drive. To use it under Windows, your Windows drivers must be installed first and properly configured.

To enter in the configuration menu, type XPRECIUM<enter> Under DOS or Windows, double click on the icon XPRECIUM.

The following display will appear :

ADDRESS/IRQ	Xprecium Parameters	MCDI Inc.	+(514) 481 1067
D400 15 XXXX yy XXXX yy XXXX yy XXXX yy XXXX yy XXXX yy XXXX yy XXXX yy XXXX yy XXXX yy XXXX yy XXXX yy XXXX yy XXXX yy XXXX yy	Version : 0.0.9 Receiver number : 1 Line 1 Number : 1 Line 2 number : 2 HeartBeat : No SESCOA SS Instead 4x2 sum : No 3x2 Instead 4x1 : No Clear Zero : No Compress Extended : No Listen In (Empty or 1..F) : Printer / Buzzer : No Start Handshake With : 1 >>> Wait After Off Hook : No Caller ID To PC : No Caller ID To Printer : No Caller ID ALL : No Date / Time : YES Send Year : No ACK Delay : 1 SurGard Mode : No	S.A.M.M. Section Keep Receiver Number : No Keep Line Number : No Offset : 0 Compress Contact ID : No <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> 1 = 1400Hz / VFSK 2 = SIA / CFSK 3 = DUAL1400Hz/2300Hz 4 = 2300 Hz 5 = STRATEL 6 = TELIM 7 = ROBOFON </div>	
<CR> Edit <CTRL U> UPDATE	<ESC> Exit <F1> Restore default <F2> Read Config File		

Setup program display description and commands

Address / IRQ section

Address part of display shows address fields and IRQ's setting for all Exprecium receivers installed in PC.

Only the cards installed will appear in the list

Move cursor to desired Exprecium using Up/Down arrows.

Press <Enter> to move to Parameter section on right part of display.

Parameters displayed on the right are actual operating parameters.

Press F1 to restore Factory defined parameters. Press F2 to restore saved parameters.

Press CTRL-U to start the firmware update process. See section FIRMWARE UPGRADE.

Press <ESC> to Exit setup program XPRECIUM.

Before accepting Exit command, XPRECIUM utility request authorization to save new parameters.

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Note : When exiting from XPRECIMUM setup program, real time clock on ALL Exprecium will be reset to PC time.

Parameter section to the right of Address section

Move cursor to desired parameter using UP/DN arrow. Key in each new parameter .

After all changes have been entered press <ESC> to go back to Address Section.

ONLY in Address Section can changes be saved and sent to receiver.

Parameter definition

Emulation mode easy setting information:

MCDI Mode	Default setting
Ademco 685 Mode	Default setting + Date / Time = NO
Surgard Mode	Surgard = YES

OPTIONS: (**default settings are indicated in bold**)

Receiver Number sent to computer and printer 0 to F **1**

Line 1 Number sent to computer and printer 0 to F **1**

Line 2 Number sent to computer and printer 0 to F **2**

Heartbeat Yes = enable **No = disable**

Heartbeat signals are sent to computer every 30 seconds only in MCDI and Surgard mode.

Sescoa SS Yes = enable **No = disable**
Conflict with Pulse 4X2 Checksum format

3x2 Instead 4x1 Yes = enable **No = disable**
Conflict with 4X1 in Compressed Expanded
DO NOT select with Compressed Expanded = YES

Clear Zero Yes = Zero removed in 3x1 and 4x1 **No = zero present**

Tells the receiver not to insert a zero in front of the account number and in front of the alarm code, incoming 3 x 1 and 4 x 1.

Example: 3 x 1 Extended compressed in 3 x 2 standard
 123 4
 444 5 After compression: 123 45

Example: 3 x 1 Standard 3 x 1
 123 1

Example: 4 x 1 Standard 4 x 1
 1234 1

Example: 3 x 1 and 4 x 1 without the CLEAR ZERO option:
 0123 01 for 3 x 1
 1234 01 for 4 x 1

Compressed/
Extended Yes = Compressed extended 3x1 or 4x1 **No = default**

Example: 3 x 1 Extended compressed in 4 x 2 standard
 123 4
 444 5 After compression: 0123 45

Example: 4 x 1 Extended compressed in 4 x 2 standard
 1234 5
 5555 6 After compression: 1234 56

Listen-In
(3x1,4x2) Empty or 1 .. F **Empty**
Define code to trigger Listen-In mode in 3x1 or 4x2 formats

Connectors, leds and Jumpers - Main board

MCDI Inc. Internet: <http://www.mcdi.com>
7055, avenue Jean-Bourdon Avenue, Montréal, QC, Canada H4K 1G7 PH: +514-481-1067 FX: +514-481-1487

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J2	Connector port for IBM compatible parallel printer type DB25. When more than one card is installed in the same computer, one printer can be used for all cards in the same computer, instead of one printer per receiver card. See TX1,RX1 below.
J3	PCI bus connector
JP1	Future use
JP2,7,9	Connectors to receive Communication Interface Module
JP3	Line 1 Phone connector type RJ11. Connect Green and Red only on each connector
JP4	Connector for external leds (future use)
JP5	Processor jumper pin 2-3 (do not remove)
JP6	Line 2 Phone connector type RJ11. Connect Green and Red only on each connector
JP8	Dry contacts relay (future use)
JP10	Serial communication (future use)
TX1, RX1	Connectors for chaining more than one Exprecium card. This allows only one external printer to serve all receiver cards. When more than one receiver card is installed, use a jumper to link all receiver cards. Connect TX1 of the first card to RX1 of the second card. Connect your printer on the last card having only a jumper on RX1.
PWR1	For MRD1000 remote display power feed.
S1	Reset switch for the receiver. Two options are available. 1. Soft Reset: Press once to reset the receiver to the user's configuration. 2. Cold Reset: Press once and wait for beep. During the beep press once more. Soft and Cold Reset can also be software achieved by running XPRECIUM setup program as shown in Setting up your Exprecium .
D1 & D2	Both leds are ON to indicate power from the PC. Only Led D2 is ON when PC is OFF and the Exprecium is powered by an external source on J1.

Connectors - Communication Interface Module

JP1,2,3	Connectors to connect to the Main Board
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Caractéristiques physiques d'ExpreciumCaractéristiques physiques d'Exprecium

Taille :Receiver has all out dimensions, including bracket of 20.3x12.7 cm or 5x8 inches.

Mémoire tampon :Mémoire tampon

Card keeps printing during fail time if 6 volt external battery is connected and charged. When computer comes back on, buffer empties to the computer. If more than 1800 events are received in the buffer during fail time, card writes over the oldest event. Written records may be available on printer connected to parallel printer port.

Batterie de secoursBatterie de secours

A six (6) volt battery connector is designed to feed receiver if computer fails. A 3 foot wire is supplied. Connect the red wire to the positive side and the black wire to the negative side of the battery.

During normal operation, card takes its power from computer and maintains battery charge. When computer fails, card takes its power from battery and keeps on receiving alarms.

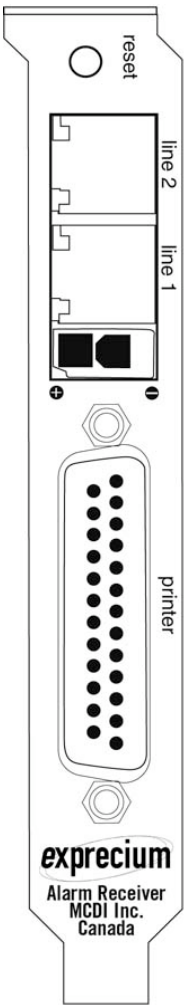
Battery size (power) is dependent on the period it must maintain the receiver operating while PC is off. As a rule of the thumb, define the number of hours a fully charged battery must support the system and divide by two (2) to get the A-H.

Example: To support the receiver for 8 hours requires a 4 A-H rechargeable battery.

Battery type recommended: Rechargeable sealed lead-acid for constant voltage.

Avertisseur sonore

On board buzzer is available for alert warning when Computer is absent. Enable if setup parameter Check printer is set to Yes. Is activated (start buzzing) by event to be printed on the Exprecium printer port. Stop buzzing by pressing twice (2) ON-LINE printer key. Refer to printer connected to the Exprecium parallel printer port. Will resume buzzing if printer is left off-line.



ds up to 1800 events in a non volatile me

Formats er caractères transmisFormats et caractères transmis

Réception

Formats	MCDI Acron Ademco L/S expanded Ademco Old Franklin Fast Radionics Expanded Sescoa SS CFSK III SurGard	DTMF Ademco Contact ID Ademco Fast / High Speed DCI Napco Scantronic SIA I - II - ~III Varitech VFSK Robofon	FSK Ademco L/S Standard Ademco Express FBI Super Fast Radionics Standard Sescoa standard Silent Knight Slow/Fast Stratel Telim
Pulse	10,20,40 bps 3x1 - 4x1 - 4x2 10,20,40 bps 4x2 10,20,40 bps 3x1 - 4x1 Extended Frequencies Handshake and kissoff:		Dual Round Checksum Dual Round 1800 Hz / 1900 Hz 1400hz / 2300hz
DTMF	10 char/sec.		
FSK	110 bauds or 300 bauds (SIA, CFSK, VFSK)		Bell 103

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Audio (Listen-in) Audio (Listen-in)

Listen-in function

Some alarm panels offer the option for the Central station operator to listen for sound in the premises where the alarm signal originates.

Alarm panels supporting "Listen-in" keep the telephone line open after having sent a signal, to allow sound monitoring. The telephone line will be closed by the Central station subject to operator action or receiver setup.

Listen-in criteria

The Exprecium receiver is triggered into "Listen-in" mode for incoming events according to panel setup for specific formats.

SIA and Contact ID formats have specific codes for Listen-in. See Panel setup.

DTMF formats use the AEx signal where x can be 0 to F at the Installer's choice.

3x1 and 4x2 formats have no standard codes for Listen-in. Exprecium allows home selection of Listen-in codes at Setup time.

Receiver action upon reception of "Listen-in" trigger

Upon reception of event in the Listen-in category, the receiver maintains the telephone line open for a period of up to 180 seconds or less than 180 seconds upon reception of any telephone tone from the keypad.

Operator control for "Listen-in"

Operator must be warned by Monitoring software of account "listen-in" capability. Operator has a maximum of 180 seconds from time of alarm reception to telephone pickup. Failure to pickup telephone in this delays will cause line hang-up by the receiver.

Once the line is seized by Central station local telephone, the hang-up action of the receiver will have no effect.

To close communication with alarm signal site in the first 180 seconds when the Exprecium receiver is in action, operator must press any key on the telephone keypad before hanging up. The receiver will hang up before 180 seconds only upon reception of a tone from telephone keypad.

To close communication with alarm signal site after 180 seconds of event reception, simply hang-up the telephone. This is because the Exprecium receiver is not in function anymore, its delay having expired.

Transmission au PC et imprimante ne mode MCDI Transmission au PC et imprimante ne mode MCDI

Pulse, DTMF, FSK

FORMAT 3x1, 4x1

```
HH:mm_ MM/DD[YY] _RL_CCCC_0A<CR>
HH:mm_ MM/DD[YY] _RL_CCCC_A<CR>
HH:mm_ MM/DD[YY] _RL_CCC_A<CR>
HH:mm_ MM/DD[YY] _RL_0CCC_AZ<CR>
HH:mm_ MM/DD[YY] _RL_CCCC_AZ<CR>
```

```
Default
Option 4x1 set by INITLR
Option 3x1 set by INITLR
Option 3x1 extended compressed 4x2
Option 4x1 extended compressed 4x2
Option zero removed 3x1, 4x1, extended
```

FORMAT 4x2

```
HH:mm_ MM/DD[YY] _RL_CCCC_AZ<CR>
```

FORMAT 4x3 (SESCOA SS)

```
HH:mm_ MM/DD[YY] _RL_CCCC_AZZ[Z]<CR>
```

FORMAT 4x3 (SUR GARD)

```
HH:mm_ MM/DD[YY] _RL_CCCC_AZZ<CR>
```

FORMAT ADEMCO HIGH SPEED

```
HH:mm_ MM/DD[YY] _RL_CCCC_AAAA_AAAA_A<CR>
```

FORMAT ACRON

```
HH:mm_ MM/DD[YY] _RL_CCCC_AAAAAAAAAA<CR>
HH:mm_ MM/DD[YY] _RL_CCC_AAAAAAAAAA<CR>
```

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FORMAT FBI SUPER FAST

HH:mm_ MM/DD[YY] _ RL_CCCC_E ZZ<CR>

FORMAT CONTACT ID

HH:mm_ MM/DD[YY] _ RL_CCCC_18_TAAA_GG_ZZZ<CR>

FORMAT MODEM SIA

HH:mm_ MM/DD[YY] _ RL_ [#CCCCCIEAAZZZ/AAZZZ/AAZZZ]<CR>
<LF>RL_ [#CCCCCIEAAZZZ/AAZZZ/AAZZZ]<CR>

Native mode
Ademco685 Emulation

FORMAT MODEM CFSK / VFSK (same as 4x2)

HH:mm_ MM/DD[YY] _ RL_CCCC_AZ<CR>

CALLER ID

Phone signal added to event code. Examples

HH:mm_ MM/DD[YY] _ RL_CCCC_AZ{t...t}<CR>
HH:mm_ MM/DD[YY] _ RL_CCCC_18_TAAA_GG_ZZZ {t...t}<CR>
HH:mm_ MM/DD[YY] _ RL_ [#CCCCCIEAAZZZ/AAZZZ/AAZZZ]{t...t}<CR>

Added to 4x2
Added to Contact ID
Added to SIA

Heartbeat

@<CR>

Signal sent to the computer every 30 seconds if option is enabled

Code definitions

HH	:	Hour	
:	:	Character ":"	
mm	:	Minute	
DD	:	Day	
_	:	1 space	
_	:	2 spaces	
MM	:	Month	
[YY]	:	Year [Present/Absent]	Receiver Option)
/	:	Character "/"	
R	:	Receiver number	(Receiver Option)
L	:	Line number	(Receiver Option)
C	:	Account number	
A	:	Event code or modifier	
E	:	Zone type	FBI super Fast
Z	:	Zone	
G	:	Group (Partition)	
T	:	Type(E or R)	(Contact ID)
Ø	:	Zero	
<CR>	:	EOS	(Carriage Return)
<ACK>	:	Data retransmits to computer every 2 second	until ACK is received (ACK=06H or \$06).
@	:	Heartbeat signal	Receiver Option)
t...t	:	Telephone number from Caller ID	
[:	Beginning data delimiter (SIA)	
]	:	Ending data delimiter (SIA)	
	:	Field separator (SIA)	
#	:	Account ID block code (SIA)	
E	:	Function block code (SIA)	
/	:	Data code packet separator (SIA)	
<LF>	:	Line Feed	

Messages d'erreur au port d'imprimante et PC Messages d'erreur au port d'imprimante et PC:

	HH:MM	MM/DD[YY]	RL	Account	XYZ	
Printer message	Time	Date	Receiver	account	01	Printer error
	Time	Date	Receiver	account	02	Printer reset
Telephone line monitoring	Time	Date	Receiver	account	03	Error Line 1

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	Time	Date	Receiver	account	04	Reset Line 1
Telephone line monitoring	Time	Date	Receiver	account	05	Error Line2
	Time	Date	Receiver	account	06	Reset Line2
External battery backup	Time	Date	Receiver	account	07	Low external battery
	Time	Date	Receiver	account	08	Normal external battery
Transmission message	Time	Date	Receiver	0000	00	Bad transmission
	Time	Date	Receiver	[#0000]A BAD TRANSMISSION]		Format SIA
No Transmission	Time	Date	Receiver	0000	F1	No signal received Line 1
	Time	Date	Receiver	0000	F2	No signal received Line 2

Transmission au PC et imprimante ne mode ADEMCO 685 / Surgard

User Manual : for information on transmission See ADEMCO 685 standards
 User Manual : for information on transmission See Surgard MRL2 documentation
 Surgard emulation applies to Dial up Alarm signals and Telephone ID

Messages au port d'imprimante :

When computer ceases to communicate, "Computer absent" message is sent to the Exprecium printer port

When computer resumes communication, "Computer restore" message is sent to to the Exprecium printer port

Vitesse de tansmissionVitesse de tansmission

1200 bps, sans parité, 8 bits, 1 stop bit

Récepteur d'Alarme Exprecium --- Guide d'Installation

Garantie

Les logiciels de la compagnie **MCDI Inc.** sont sujets à une garantie limitée d'une année. Durant cette période, le service effectué pendant les heures ouvrables est sans frais. Le matériel électronique est sujet à une garantie limitée de cinq ans. Il est réparé ou échangé, sans frais, lorsque retourné, port payé, à nos bureaux. La garantie ne s'applique pas aux produits défectueux suite à une utilisation incorrecte ou abusive.

Les logiciels peuvent être mis sous contrat de service étendu dès leur achat. À la fin de la période de garantie, un contrat de service régulier ou étendu est offert. Ce contrat inclut la mise à jour à la version la plus récente du logiciel. Les dommages causés par des surcharges électriques ne sont pas couverts par la garantie.

Conformité légale et Avertissement

United States Regulation FCC Warning

Radio/TV interference

This device is not equipped with dialing equipment.

Telephones equipped with electronic dialing keys generate and use radio frequency energy, and if not installed and used properly and in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception.

NOTE: This device has been tested and found to comply with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesirable operation.

If your device causes interference, one of the following measures may correct the problem:

- Reorient or relocate the receiving TV or radio antenna, when this may be done safely.
- To the extent possible, move the device and the radio or television farther away from each other, or connect the computer with the device and the radio or television to outlets on separate circuits.
- Consult the dealer or an experienced radio/television technician for additional suggestions.

NOTE: FCC registration does not constitute an expressed or implied guarantee of performance.

Right of the Telephone Company

If this device causes harm to the telephone network, the telephone company may stop your service temporarily or ask you to remove your equipment until the problem is resolved. If possible, they will notify you in advance. If advance notice is not practical, you will be notified as soon as possible and be given the opportunity to correct the situation. You will also be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper function of this device. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

Federal Communication Commission (FCC) Notice

FCC Registration Number: This device complies with Part 68, Rules and Regulations, of the FCC for direct connection to the Public Switched Telephone Network (the FCC registration number and REN number appear on a sticker). If requested, this information must be provided to the telephone company.

Your connection to the telephone line must comply with these FCC rules:

- Use only an FCC standard RJ11W/RJ14W or RJ11C/RJ14C network interface jack and FCC compliant line cord and plug to connect to the telephone line. (To connect the device press the small plastic tab on the plug at the end of the telephone's line cord. Insert into a jack until it clicks. To disconnect, press the tab and pull out.)
- If a network interface jack is not already installed in your location, you can order one from your telephone company. Order RJ11W/RJ14W for wall mounted telephones or RJ11C/RJ14C for desk/table use. In some states, customers are permitted to install their own jacks.
- This device may not be connected to a party line or coin telephone line. Connection to Party Line Service is subject to state tariffs (contact the state public utility commission, public service commission or corporation commission for information).
- It is no longer necessary to notify the telephone company of your device's Registration and REN number however, you must provide this information to the telephone company if they request it.

Récepteur d'Alarme Exprecium --- Guide d'Installation

- . If trouble is experienced with this equipment, for repair or warranty information please contact:
Local dealer or
MCDI Inc.
86 Claude-Champagne Avenue, Montreal, QC Canada H2V 2X1
Telephone: (514) 481-1067 Fax: (514) 481-1487
- . If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect it until the problem is resolved.
- . This device does not have any serviceable parts. Repair or exchange must be made by the manufacturer or its representatives.

Signaling method: This device does not dial out.

Ringer Equivalence Number: The FCC Registration label (on the device) includes a Ringer Equivalence Number (REN) which is used to determine the number of devices you may connect to your telephone line. A high total REN may prevent telephones from ringing in response to an incoming call and may make placing calls difficult. In most areas, a total REN of 5 should permit normal telephone operation. To determine the total REN allowed on your telephone line, consult your local telephone company.

Hearing aids This device does not convert the signal for human hearing.

Programming Emergency numbers: This device does not dial out.

Important safety instructions

When using the device, basic safety precautions should always be followed to reduce risk of fire, electrical shock and injury to persons including the following:

1. Read and understand all instructions.
2. Follow the warnings and instructions marked on the product.
3. This device is installed in a computer. This work should be done by a qualified computer technician.
4. Avoid using during electrical storm. There may be a remote risk of electrical shock from lightning.
5. CAUTION: Do not use sharp instruments during installation procedure to eliminate the possibility of accidental damage to the device, the computer or the cord.
6. Save these instructions.

Europe Declaration CE de Conformité 2Europe Declaration CE de Conformité

Fabricant::

MCDI (MC Développement International Inc.)

Adresse: 86, avenue Claude-Champagne
Montréal, Québec
Canada
H2V 2X1

Nom du signataire: Yves Méthot
Qualité: Président

Produit: MCDI-TLR+ récepteur d'alarmes

Le produit identifié ci-dessus est déclaré conforme aux dispositions de:

- La directive de Conseil de l'Union Européenne du 3 mai 1989 concernant le rapprochement des législations des Etats membres relatives à la Compatibilité Electromagnétique (89/336/CEE) (JOCE 23.05.89 L-139/19-26), telle qu'amendée par la directive 9(3/68/EEC)

Cette conformité est présumée par la référence aux spécifications suivantes:

EN50082-1:1992 --- EN55022 CLASSE A --- EN 60555 PARTIES 2 & 3 --- EN41003:1993 --- BAPT Note 48 révision 5
EN60950/IEC Ed 2 Amendement No 1 1992, Amendement No 2 1993, Amendement No 3 1996

Signé ce 7e jour de janvier 1997

MCDI Inc.

Récepteur d'Alarme Exprecium --- Guide d'Installation

Europe EN41003 Avis Application Note 48.version 5

1) La puissance requise par l'ordinateur et la totalité des cartes installées dans l'ordinateur, avec les appareils auxiliaires, ne doit pas excéder la puissance spécifiée pour l'ordinateur.

La puissance requise par le récepteur TLR+

De l'ordinateur	12V cc	600 mA max.
De batterie externe (attente)	6V cc	500 mA
Voltage de charge	6.7 Volts cc	500 mA (Limite de courant)

2) Il est essentiel que, lorsque d'autres cartes utilisant ou générant des voltages excessifs, sont insérées, les distances minima aussi bien en ligne directe qu'en suivi de paroi de boîtier, selon les spécifications du tableau, soient respectées. Un voltage excessif est défini comme tel s'il dépasse 42.4V crête c.a. ou 60V c.c. En cas de doute obtenir l'avis d'un ingénieur spécialisé avant d'insérer d'autres cartes dans l'ordinateur.

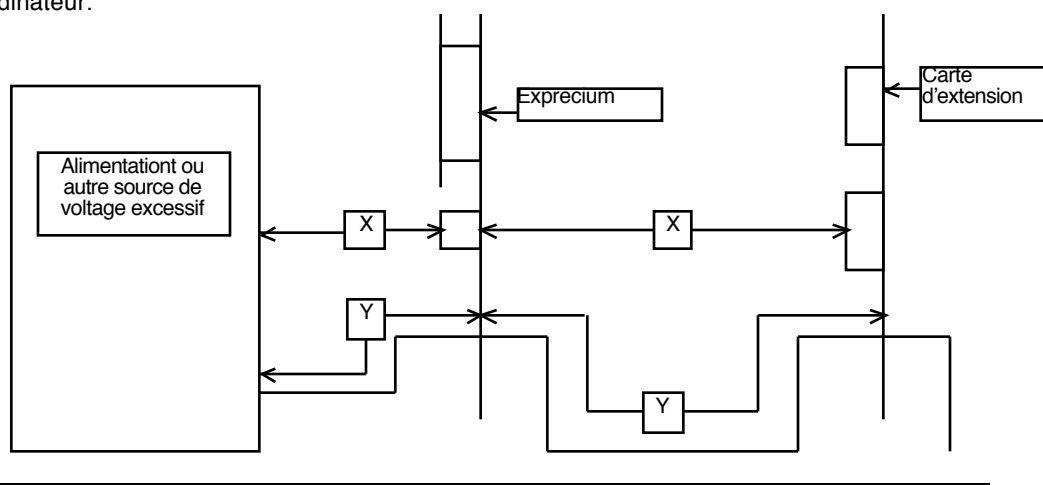
3) Le matériel doit être installé de façon telle que, sauf le lien avec l'ordinateur, les distances directes et de suivi avec l'armature soient respectées entre la carte et tout autre composante qui utilise ou génère un voltage selon la table ici-bas. La plus grande distance montrée entre parenthèses s'applique lorsque l'environnement à l'intérieur de l'ordinateur devient conducteur par la pollution ou pollution sèche pouvant devenir conductive à cause de la condensation. Le défaut de respecter les distances prescrites rend l'approbation invalide.

4) L'interface analogue de télécommunication doit être reliée au réseau de télécommunication pouvant être porteur de voltages dangereux. Le cordon téléphonique doit être débranché du réseau tant que la carte n'est pas installée dans l'ordinateur qui assure la protection de l'opérateur. Si l'ordinateur doit être ouvert subséquemment, le cordon de branchement au réseau de télécommunication doit être débranché avant tout.

Tableau:

Distance directe (mm) X	Distance suivi armature (mm) Y	Voltage utilisé ou généré par ordinateur ou autres cartes
2.0	2.4 (3.8)	Jusqu'à 50 Vrms ou Vcc
2.6	3.0 (4.8)	Jusqu'à 125 Vrms ou Vcc
4.0	5.0 (8.0)	Jusqu'à 250 Vrms ou Vcc
4.0	6.4 (10.0)	Jusqu'à 300 Vrms ou Vcc
Pour ordinateur / cartes d'extension dans l'ordinateur utilisant ou générant des voltages au delà de 300V (rms ou cc), l'avis d'un ingénieur spécialisé en sécurité des télécommunications doit être obtenu avant installation.		Au dessus de 300 Vrms ou Vcc

Ordinateur:



Récepteur d'Alarme Exprecium --- Guide d'Installation

Fiche technique d'Exprecium

Description

EXPRECIUM est un récepteur d'alarmes créé pour les ordinateurs à bus PCI.

Cette option évolutive permet d'installer 12 **EXPRECIUM** ou plus par PC. Les cartes **EXPRECIUM** peuvent être rajoutées au fur et à mesure des besoins du Central d'alarmes. De quoi satisfaire les plus grands Centraux comme les plus petits ou tout simplement superviser les signaux d'entrée/sortie..

Comme tous les récepteurs MCDI, **EXPRECIUM** n'impose aucune limite logique au nombre de clients par ligne. Doté d'une mémoire de 1800 événements, d'une circuiterie très rapide et de la fonction identificatrice d'appelant, **EXPRECIUM** est la nouvelle référence en matière de récepteurs d'alarmes.

EXPRECIUM est muni de plusieurs dispositifs de sécurité comme la sortie directe sur imprimante et une entrée pour batterie de secours, lui permettant de fonctionner même si le PC n'est pas fonctionnel.

Option: Affichage / contrôle

Certification: FCC(USA), IC(Canada), CE (Europe)

Spécifications

Communications:

EXPRECIUM offre 2 liens téléphoniques RJ11.

Type	:	Pulse, DTMF, FSK
Reception	:	10, 20, 40 pps DR / CS
Handshake et Kiss-off	:	1400Hz / 2300Hz/2225Hz
Fréquence Pulse	:	1800Hz / 1900Hz
Telim/Robofon	:	1180Hz / 1100Hz

Formats de Réception :

Acron	Radionics 6500
Ademco:	Radionics étendu
- Slow/Fast;	Sescoa Slow, Super Fast
- Contact ID;	Sescoa Standard
- Extended;	SIA
- Express;	Contact ID
- High Speed	- compressed & Extended
CFSK,BFSK,	Silent Knight Slow
VFSK	
MCDI-Take-a-look	SurGard
FBI Super Fast	Napco Point ID
3x1	3x1 extended
4x1	3x1 extended compressed 4x2
4x1 _étendu	4x1 extended compressed 4x2
4x2	Zero removed 3x1, 4x1, extended.
Optex Varitech	C&K: Bell 103A2 or CCIT (option)
Allemagne et Scandinavie:	Pulse ou Telim / Robofon

Sortie directe pour imprimante:

Connecteur DB25 Centronics Interface parallèle.

Le chaînage des cartes Exprecium, TLR, TLR+ permet d'utiliser une seule imprimante pour tous les récepteurs dans l'ordinateur.

Conservation d'événements:

Exprecium conserve en mémoire les 1800 derniers signaux reçus lorsque l'ordinateur ne réponds plus..

Nouveautés

- Fait pour bus PCI .
- installation: Plug & play .
- Supporte SIA, CFSK, BFSK, VFSK, Etc.
- Identificateur d'appelant.
- Mémoire interne de 1800 signaux
- Mémoire non volatile.
- Détection de ligne morte.
- 12 Exprecium ou plus par PC
- Tonalité d'alerte/avertissement
- Supervision of charge batterie de secours.
- Fonctionne avec tous les logiciels de gestion d'alarmes.
- Supporte la communication audi (Listen-in).
- Se relie au MRD1000 pour affichage et contrôle.

Puissance:

De l'ordinateur +12V:	200 mA max.
De batterie 6 V (Backup):	500 mA

Dimensions / poids:

8" / 20.3 cm (L) x 5" / 12.7 cm(H); 0.484 lb / 220 gr

Spécifications de station:

Ordinateur IBM™ et Compatible Pentium™ et plus .
Format de table. Bus PCI.. DOS ou Windows

Imprimante avec interface Centronics parallèle et câble muni de connecteur DB25 .

Adressage du PC :

Bus PCI . Plug & Play. PC doit avoir BOIS Plug & Play .

Batterie de secours:

Exprecium est doté d'un circuit de charge et de supervision pour une batterie externe de 6V (non incluse). Une batterie de 12V peut également être utilisée mais sans charge .

Voltage de charge	6.7 Volts
Courant de charge(Limite)	500 mA

Logiciel de gestion des signaux d'alarme:

EXPRECIUM communique avec les logiciels de gestion en mode MCDI, Ademco™ 685 et SurGard™ MLR2.

Afficheur MRD1000 (Option):

- Affiche signaux reçus ou contrôles sur 2 lignes x 20 caractères.
- Configure et gère **EXPRECIUM**, **TLR+** or **SA-TLR+**.
- Clé d'acceptation des alarmes pour opération facile.
- Alimentation par **EXPRECIUM**, **TLR+** ou **SA-TLR+**.
- Offert en version externe ou interne au PC(fente de CD) .