

© 1996-2002 SYMBOL TECHNOLOGIES, INC. All rights reserved.

Symbol reserves the right to make changes to any product to improve reliability, function, or design.

Symbol does not assume any product liability arising out of, or in connection with, the application or use of any product, circuit, or application described herein.

No license is granted, either expressly or by implication, estoppel, or otherwise under any patent right or patent, covering or relating to any combination, system, apparatus, machine, material, method, or process in which Symbol products might be used. An implied license only exists for equipment, circuits, and subsystems contained in Symbol products.

Symbol and the Symbol logo are registered trademarks of Symbol Technologies, Inc. Other product names mentioned in this manual may be trademarks or registered trademarks of their respective companies and are hereby acknowledged.

Symbol Technologies, Inc.
One Symbol Plaza
Holtsville, N.Y. 11742-1300
<http://www.symbol.com>

Patents

This product is covered by one or more of the following U.S. and foreign Patents:

U.S. Patent No. 4,496,831; 4,593,186; 4,603,262; 4,607,156; 4,652,750; 4,673,805; 4,736,095; 4,758,717; 4,760,248; 4,806,742; 4,816,660; 4,845,350; 4,896,026; 4,897,532; 4,923,281; 4,933,538; 4,992,717; 5,015,833; 5,017,765; 5,021,641; 5,029,183; 5,047,617; 5,103,461; 5,113,445; 5,130,520; 5,140,144; 5,142,550; 5,149,950; 5,157,687; 5,168,148; 5,168,149; 5,180,904; 5,216,232; 5,229,591; 5,230,088; 5,235,167; 5,243,655; 5,247,162; 5,250,791; 5,250,792; 5,260,553; 5,262,627; 5,262,628; 5,266,787; 5,278,398; 5,280,162; 5,280,163; 5,280,164; 5,280,498; 5,304,786; 5,304,788; 5,306,900; 5,321,246; 5,324,924; 5,337,361; 5,367,151; 5,373,148; 5,378,882; 5,396,053; 5,396,055; 5,399,846; 5,408,081; 5,410,139; 5,410,140; 5,412,198; 5,418,812; 5,420,411; 5,436,440; 5,444,231; 5,449,891; 5,449,893; 5,468,949; 5,471,042; 5,478,998; 5,479,000; 5,479,002; 5,479,441; 5,504,322; 5,519,577; 5,528,621; 5,532,469; 5,543,610; 5,545,889; 5,552,592; 5,557,093; 5,578,810; 5,581,070; 5,589,679; 5,589,680; 5,608,202; 5,612,531; 5,619,028; 5,627,359; 5,637,852; 5,664,229; 5,668,803; 5,675,139; 5,693,929; 5,698,835; 5,705,800; 5,714,746; 5,723,851; 5,734,152; 5,734,153; 5,742,043; 5,745,794; 5,754,587; 5,762,516; 5,763,863; 5,767,500; 5,789,728; 5,789,731; 5,808,287; 5,811,785; 5,811,787; 5,815,811; 5,821,519; 5,821,520; 5,823,812; 5,828,050; 5,848,064; 5,850,078; 5,861,615; 5,874,720; 5,875,415; 5,900,617; 5,902,989; 5,907,146; 5,912,450; 5,914,478; 5,917,173; 5,920,059; 5,923,025; 5,929,420; 5,945,658; 5,945,659; 5,946,194; 5,959,285; 6,002,918; 6,021,947; 6,031,830; 6,036,098; 6,047,892; 6,050,491; 6,053,413; 6,056,200; 6,065,678; 6,067,297; 6,068,190; 6,082,621; 6,084,528; 6,088,482; 6,092,725; 6,101,483; 6,102,293; 6,104,620; 6,114,712; 6,115,678; 6,119,944; 6,123,265; 6,131,814; 6,138,180; 6,142,379; 6,172,478; 6,176,428; 6,178,426; 6,186,400; 6,188,681; 6,209,788; 6,216,951; 6,220,514; 6,243,447; 6,244,513; 6,247,647; 6,308,061; 6,250,551; 6,295,031; D305,885; D341,584; D344,501; D359,483; D362,453; D363,700; D363,918; D370,478; D383,124; D391,250; D405,077; D406,581; D414,171; D414,172; D418,500; D419,548; D423,468; D424,035; D430,158; D430,159; D431,562; D436,104.
Invention No. 55,358; 62,539; 69,060; 69,187 (Taiwan); No. 1,601,796; 1,907,875; 1,955,269 (Japan);
European Patent 367,299; 414,281; 367,300; 367,298; UK 2,072,832; France 81/03938; Italy 1,138,713.
rev. 11/01

Quick Reference

Introduction

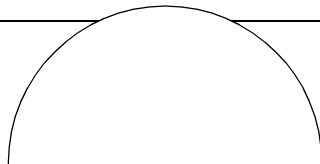
This guide presents information on the installation and charging of the CRD3100-1000 single-slot cradle base module and the CRD3100-4000 four-slot cradle base module, which are used with Symbol Technologies' Series 3100 terminals.

The option to wall-mount your CRD3100-1000 and CRD3100-4000 cradle base modules is available. You will need one wall-mount bracket kit (p/n 62806-00-00) to wall-mount your CRD3100-1000 single-slot cradle base module, or two kits to wall-mount your CRD3100-4000 four-slot cradle base module.

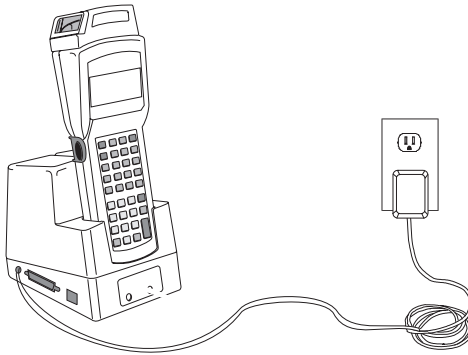
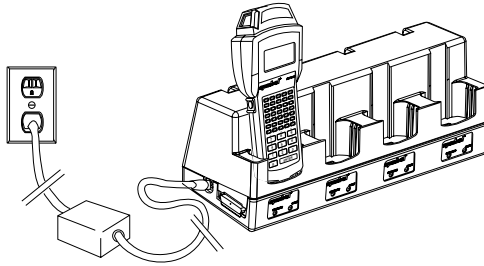
Connecting Power

Note: The procedure for connecting power to the single-slot cradle is the same as for the four-slot cradle.

1. Connect the power supply cord round plug to the power connector on the side of the cradle (CRD3100-1000: power supply p/n 59915-00-00 for domestic use, 60507-00-00 for international use; CRD3100-4000: power supply p/n 60153-00-00 for domestic use and 60174-00-00 for international use).
2. Connect the power supply cord AC plug to a standard electrical outlet.



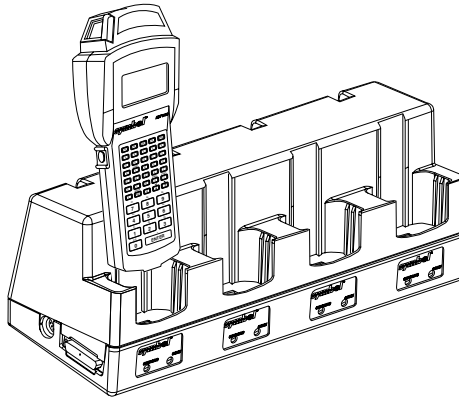
3. The green and red indicators light for about 3 seconds, blink for 3 seconds, then go out.



Quick Reference

Inserting Terminal in Cradle

1. Insert the bottom of the terminal into the cradle slot, gently. **DO NOT FORCE.**
2. The green *CHARGING* indicator lights and the terminal is turned on. The green light blinks while the terminal is fast-charging.



To remove, pull straight up and lift the terminal out of the cradle.

Caution

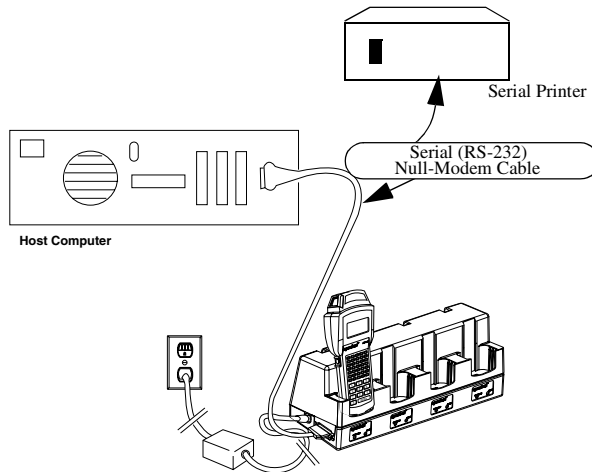
If you remove the terminal while the cradle's red COMM light is blinking, communication between the host and the terminal will be disrupted.

Connecting Cable for Data Communications

(to a host computer, printer or modem)

1. Plug an RS-232 serial cable into the communication port located on the left end of cradle next to the power connector.
2. Connect the other end of the cable to the serial (COMM) port of the host computer or printer.

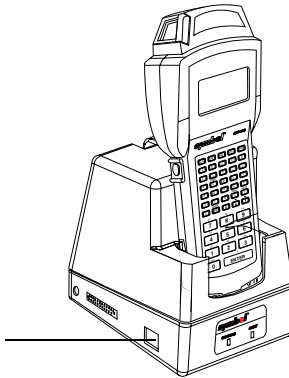
Note: *In most cases, you must use a null-modem cable. However, modems and some serial printers (DCE-type) do not need a null-modem. For a DB25 connection, the cable you will need is p/n 59846-01-00. For a DB9 connection, the cable you will need is p/n 59846-03-00 (see your system administrator).*



Quick Reference

Internal Modem Connections

RJ-11 Port



Some cradles use an optional internal modem that communicates at rates of up to 14,400 bps (with v.32 bis data compression). It can be connected directly to a telephone line through the RJ-11 port shown in the illustration.

There are specific firmware settings which are used to configure the modem's hardware and software for proper operation and regulatory compliance. The terminal's application can control these settings and enable you to view and amend the settings for country/region, pulse/tone dialing, or repeat dial timing. Incorrectly defining these settings can lead to illegal use of the modem and can create unreliable operation. The application developer should consult the Series 3000 Application Programmer's Reference Manual for correct settings.

For serial communications, follow the steps provided for the serial cradle.

Recharging the Terminal's Battery

Note: *The procedure for recharging the battery in the single-slot cradle is the same as for the four-slot cradle.*

- The NiCad battery is automatically recharged whenever the terminal is properly inserted in the cradle. The terminal may be on or off.
- The terminal must be left in the cradle up to 90 minutes to recharge a fully discharged battery.

Caution

Do not charge if battery temperature is below 0° C (32° F). If below 0° C, wait one-half hour for battery to warm up.

- The terminal contains a safety mechanism so that disposable alkaline batteries are not charged.

Connecting to Other Cradles

Up to 16 four-slot cradles can be connected in series using an RS-232 inter-cradle cable (p/n 60427-00-00). For interconnecting cradles where a longer inter-cradle cable is needed, use cable p/n 51349-00-00. Single-slot cradles may **not** be interconnected.

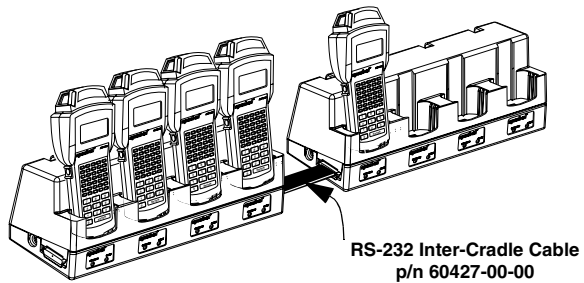
Warning

Each cradle must have its own power supply; any other method of power hookup is unsafe.

1. Plug one end of the inter-cradle cable into the communication port located on the right end of the first cradle.

Quick Reference

2. Plug the other end of the inter-cradle cable into the communication port located next to the power connector on the left end of the second cradle.



3. Connect power supply to the second four-slot cradle as described in the *Connecting Power* section.
4. Repeat the above steps for any additional four-slot cradles you wish to connect.

Sending Data

Note: The procedure for sending data using the single-slot cradle is the same as for the four-slot cradle.

1. Press the appropriate key on the terminal as required by your application program.
2. The cradle's red *COMM* indicator blinks when communication begins.

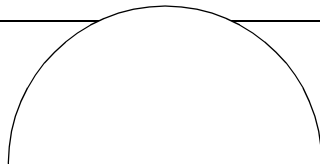
Caution

*If you remove the terminal while the cradle's red *COMM* light is blinking, communication between the host and the terminal will be disrupted.*

What the lights mean...

Note: The indicator lights on the single-slot cradle have the same meaning as those on the four-slot cradle.

Condition	CHARGING Lights	COMM Lights
ON	Terminal is properly placed in the cradle; terminal is trickle charging (if equipped with NiCad batteries).	Terminal is able to receive data only.
OFF	Terminal is not properly placed in cradle.	Terminal is not trying to communicate.
BLINKING	Terminal is properly placed in the cradle and is fast charging (90 minutes).	Terminal is able to send and receive data.

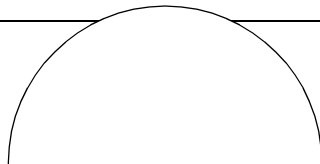


Troubleshooting

Symptom	Possible Cause	Action
Green and red indicators do not momentarily light when the cradle is plugged in.	Cradle is not receiving power.	Make sure power cable is securely connected and wall outlet is supplying power.
Green <i>CHARGING</i> indicator does not light when terminal is inserted in cradle.	Terminal is not seated firmly in cradle.	Replace terminal in cradle; terminal must fit securely.
	Terminal is not turned on.	Turn on the terminal.
	Terminal is not communicating with cradle.	Try another terminal.
NiCad battery in terminal did not recharge.	Battery failed.	Replace battery.
	Terminal was removed from cradle too soon.	Replace terminal in cradle; about 90 minutes are needed to recharge a completely dead battery.

Quick Reference

Symptom	Possible Cause	Action
No data was transmitted to the host or printer, or the data transmitted to host or printer was incomplete.	Terminal removed from cradle while red <i>COMM</i> indicator was blinking.	Replace terminal in cradle and retransmit.
	Null modem was not used.	Null modem is required for communication to DTE devices. Retransmit using appropriate null modem.
	Incorrect null modem configuration.	See your system administrator.



Introduction

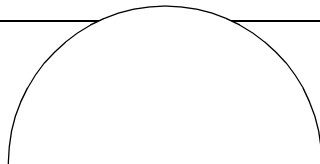
Ce guide présente des informations sur l'installation et le chargement des puits CRD3100-1000 (une position) et CRD3100-4000 (quatre positions), qui servent pour les terminaux Symbol Technologies de la série 3100.

Vous pouvez également fixer votre puits CRD3100-1000/CRD3100-4000 au mur grâce au kit de patte de fixation optionnel (réf. 62806-00-00). Il vous faut un kit pour la fixation murale du puits CRD3100-1000 (une position) et deux pour le CRD3100-4000 (quatre positions).

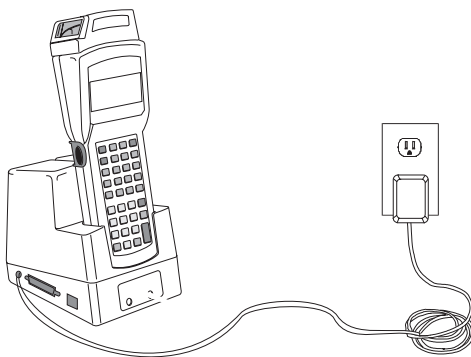
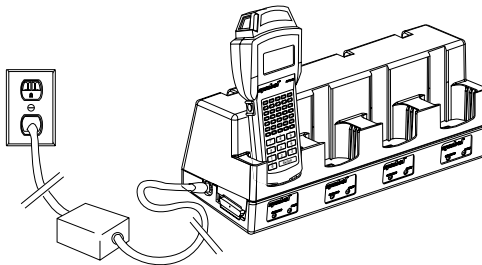
Connexion de l'alimentation

Remarque : La procédure de connexion de l'alimentation est identique pour les deux modèles de puits.

1. Branchez la prise ronde du cordon d'alimentation sur le connecteur d'alimentation situé sur le côté du puits (CRD3100-1000 : cordon d'alimentation réf. 59915-00-00 pour les Etats-Unis, 60507-00-00 pour les autres pays ; CRD3100-4000 : cordon d'alimentation réf. 60153-00-00 pour les Etats-Unis, 60174-00-00 pour les autres pays).
2. Branchez le cordon d'alimentation sur A à une prise standard.



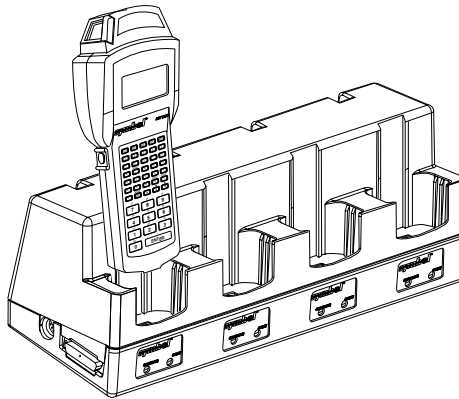
3. Les témoins vert et rouge s'allument pendant environ 3 secondes, puis clignotent pendant 3 secondes avant de s'éteindre.



Insertion du terminal dans le puits

1. Glissez délicatement la partie inférieure du terminal dans le puits de chargement. **NE FORCEZ PAS.**

2. Le témoin vert *CHARGE* s'allume et le terminal se met en marche. Ce témoin clignote pendant que le terminal subit une charge rapide.



Pour ôter le terminal, tirez-le vers le haut pour l'extraire du puits.

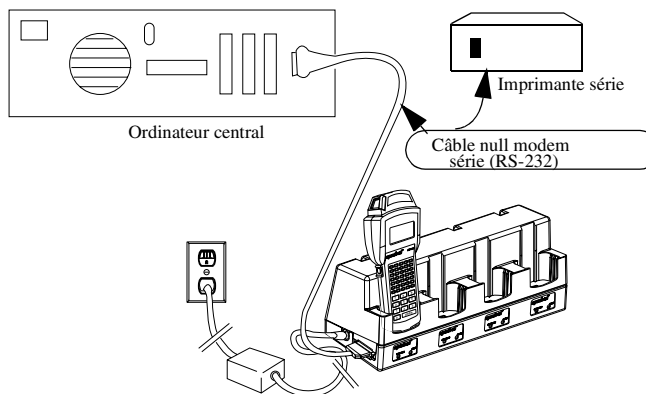
Attention

Si vous retirez le terminal pendant que le témoin rouge COMM du puits clignote, la communication entre l'ordinateur central et le terminal est interrompue.

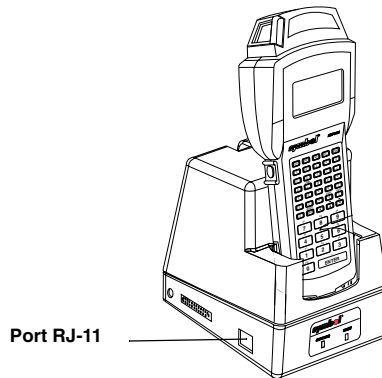
Connexion du câble de communication (avec un ordinateur central, une imprimante ou un modem)

1. Branchez un câble série RS-232 sur le port de communication situé à gauche du puits, à côté du connecteur d'alimentation.
2. Branchez l'autre extrémité du câble sur le port série (COMM) de l'ordinateur central ou de l'imprimante.

Remarque : Dans la plupart des situations, un câble null modem convient. Toutefois, les modems et certaines imprimantes série (type DCE) n'en ont pas besoin. Pour une connexion DB25, le câble nécessaire porte la référence 59846-01-00. Pour une connexion DB9, le câble est le 59846-03-00 (voir votre administrateur système).



Connexions du modem interne



Certains puits sont équipés d'un modem interne en option ; ce modem qui communique à un débit de 14 400 bps maximum (avec une compression de données v.42 bis) peut être raccordé directement à une ligne téléphonique par l'intermédiaire du port RJ-11 figurant dans l'illustration.

Remarque : Le puits à quatre positions ne comporte pas de modem interne.

Il existe des réglages spécifiques de microprogramme destinés à configurer le matériel et le logiciel du modem afin d'assurer son fonctionnement correct et sa conformité à la réglementation. L'application du terminal peut contrôler ces réglages. Ceci vous permet de visualiser et de modifier les réglages relatifs au pays/région, à la numérotation par impulsion/tonalité ou à la durée de répétition de numérotation. Ces réglages doivent être définis correctement pour éviter une utilisation illégale du modem et des problèmes de fonctionnement. Pour connaître les réglages

corrects, le concepteur de l'application devrait consulter le manuel "Series 3000 Application Programmer's Reference Manual" (manuel de référence à l'usage du programmeur d'application de la série 3000).

Pour les communications série, suivez la procédure du puits série.

Recharge de la batterie du terminal

Remarque : *La procédure de recharge de la batterie est identique pour les deux modèles de puits.*

- La batterie NiCad est automatiquement chargée chaque fois que le terminal est inséré correctement dans le puits, que le terminal soit ou non en marche.
- Il faut jusqu'à 90 minutes pour que le puits recharge une batterie entièrement déchargée.

Attention

N'effectuez pas de recharge si la température de la batterie est inférieure à 0° C. Dans ce cas, patientez pendant une demi-heure pour que la batterie se réchauffe.

- Le terminal est équipé d'un mécanisme de sécurité pour éviter que les piles alcalines jetables ne soient chargées.

Connexion à d'autres puits de chargement

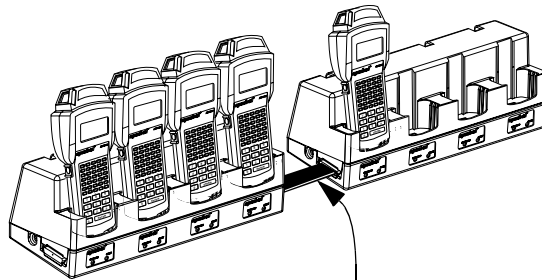
Il est possible de connecter en série un maximum de 16 puits à quatre positions à l'aide d'un câble RS-232 (réf. 60427-00-00). S'il vous faut un câble de connexion plus long, utilisez le câble

référence 51349-00-00. Les puits à une position ne doivent **pas** être interconnectés.

Avertissement

Chaque puits doit avoir sa propre source d'alimentation, toute autre méthode de raccordement d'alimentation présente des risques.

1. Branchez une extrémité du câble sur le port de communication situé à droite du premier puits.
2. Branchez l'autre extrémité du câble sur le port de communication situé à côté du connecteur d'alimentation à gauche du second puits.



**Câble de connexion RS-232
réf. 60427-00-00**

3. Raccordez l'alimentation au deuxième puits à quatre positions comme indiqué à la section *Connexion de l'alimentation*.

4. Répétez les étapes ci-dessus pour chaque puits de chargement supplémentaire à quatre positions.

Transmission des données

Remarque : La procédure de transmission des données est identique pour les deux modèles de puits.

1. Appuyez sur la touche du terminal correspondant à votre application.
2. Le témoin rouge *COMM* du puits clignote lorsque la communication commence.

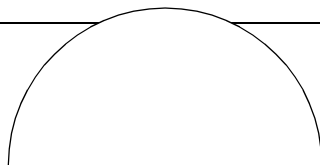
Attention

*Si vous retirez le terminal pendant que le témoin rouge *COMM* du puits clignote, la communication entre l'ordinateur central et le terminal sera interrompue.*

Signification des témoins

Remarque : La signification des témoins des deux modèles de puits est identique.

Etat	Témoins CHARGE	Témoins COMM
ALLUME	Le terminal est bien inséré dans le puits et il subit une charge lente (s'il est équipé de batteries NiCad).	Le terminal peut uniquement recevoir des données.
ETEINT	Le terminal est mal inséré dans le puits.	Le terminal ne tente pas de communiquer.
CLIGNOTANT	Le terminal est bien inséré dans le puits et subit une charge rapide (90 minutes).	Le terminal est en mesure d'envoyer et de recevoir des données.



Dépannage

Symptôme	Cause possible	Action
Les témoins vert et rouge ne s'allument pas lorsque le puits est branché.	Le puits n'est pas alimenté.	Vérifiez que le cordon d'alimentation est bien branché et que la prise murale fonctionne.
Le témoin vert <i>CHARGE</i> ne s'allume pas lorsque le terminal est inséré dans le puits.	Le terminal est mal inséré dans le puits.	Réinsérez le terminal dans le puits, il doit être bien enclenché.
	Le terminal n'est pas mis sous tension.	Mettez le terminal sous tension.
	Le terminal ne communique pas avec le puits.	Faites un essai avec un autre terminal.
La batterie NiCad du terminal n'est pas rechargée.	La batterie est hors d'usage.	Changez la batterie.
	Le terminal a été retiré prématurément du puits.	Réinsérez le terminal dans le puits. Il faut environ 90 minutes pour recharger une batterie complètement déchargée.

Symptôme	Cause possible	Action
Les données ne sont pas transmises à l'ordinateur central ou à l'imprimante ou elles sont incomplètes.	Le terminal a été extrait du puits alors que le témoin rouge <i>COMM</i> clignotait.	Réinsérez le terminal dans le puits et faites une nouvelle tentative.
	Vous n'avez pas utilisé un câble null modem.	Les câbles null modem sont nécessaires pour les communications avec les périphériques DTE. Faites une nouvelle transmission à l'aide du null modem adéquat.
	Mauvaise configuration null modem.	Contactez votre administrateur système.

Einführung

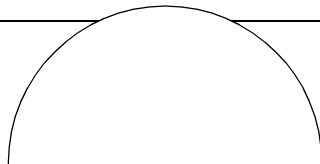
Diese Übersicht bietet Ihnen Informationen zum Installieren und Laden des Basismoduls des CRD3100-1000 Einzelschlitz-Cradles sowie des Basismoduls des CRD3100-4000 Vierfachschlitz-Cradles, die in Verbindung mit den Terminals der Serie 3100 von Symbol Technologies benutzt werden.

Es stehen wahlweise auch Basismodule der Cradles CRD3100-1000 und CRD3100-4000 für die Wandmontage zur Verfügung. Für die Montage des Basismoduls des CRD3100-1000 Einzelschlitz-Cradles benötigen Sie einen Wandmontageklammersatz (p/n 62806-00-00); für die Montage des Basismoduls des CRD3100-4000 Vierfachschlitz-Cradles sind zwei solcher Montagesätze erforderlich.

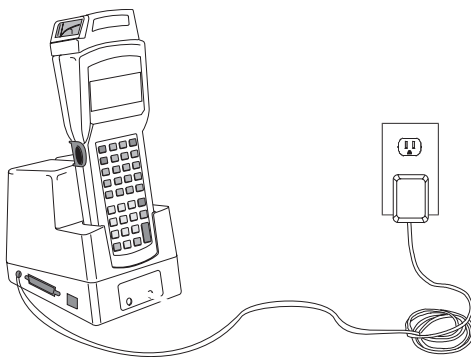
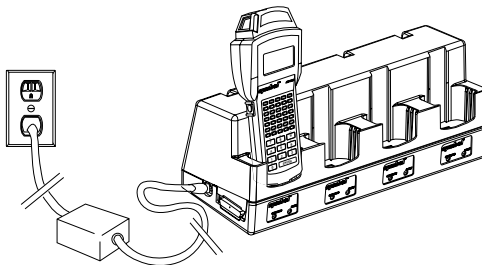
Stromanschluß

Hinweis: Der Stromanschluß ist für den Einzelschlitz- und Vierfachschlitz-Cradle gleich.

1. Stecken Sie den runden Stecker des Stromkabels in den Stromanschluß auf der Seite des Cradles (CRD3100-1000: Stromversorgung Inland - p/n 59915-00-00, Ausland - 60507-00-00; CRD3100-4000: Stromversorgung Inland - p/n 60153-00-00, Ausland - 60174-00-00).
2. Stecken Sie den GS-Stecker in eine normale Steckdose.



3. Die grünen und roten Anzeigen leuchten ca. 3 Sekunden auf, blinken anschließend 3 Sekunden lang und erlöschen anschließend.

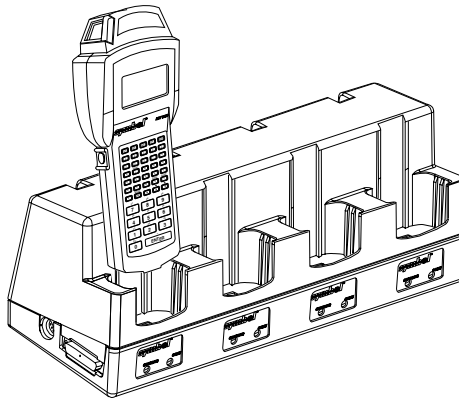


Einsetzen des Terminals in den Cradle

1. Setzen Sie das Terminal mit der Unterseite vorsichtig in den Cradle ein. WENDEN SIE KEINE GEWALT AN.

Kurzübersicht

- Die grüne *CHARGING*-Anzeige leuchtet auf, und das Terminal wird aktiviert. Wenn sich das Terminal im Schnelllade-Modus befindet, blinkt die grüne Anzeige.



Um das Terminal herauszunehmen, ziehen Sie es nach oben und heben es aus dem Cradle.

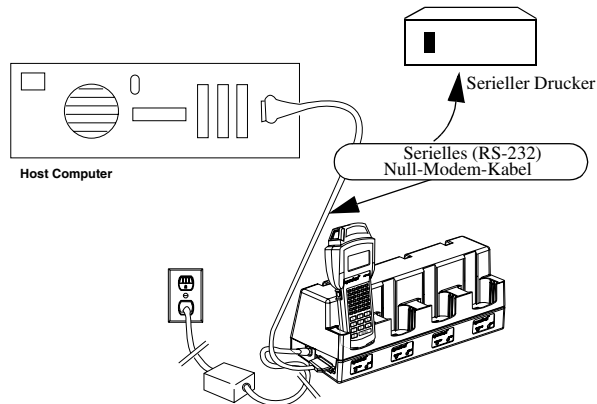
Vorsicht

Wenn Sie das Terminal aus dem Cradle nehmen, während die rote COMM-Anzeige leuchtet, wird die Verbindung zwischen Terminal und Host unterbrochen.

Anschließen eines Kabels für Datenübertragungen (an einen Host-Computer, an einen Drucker oder an ein Modem)

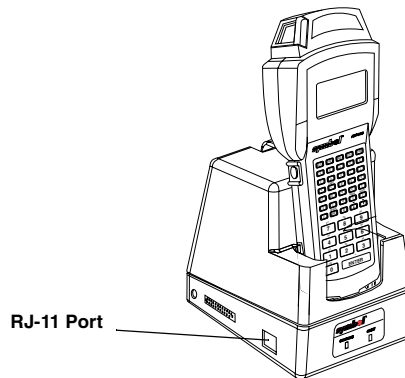
1. Stecken Sie eines der Enden eines seriellen RS-232-Kabels in den Kommunikations-Port, der sich am linken Ende des Cradles nach neben dem Stromanschluß befindet.
2. Schließen Sie das andere Ende des Kabels in den seriellen (COMM) Port des Host-Computers oder Druckers.

Hinweis: In den meisten Fällen müssen Sie ein Null-Modem-Kabel benutzen. Modems und einige serielle Drucker (DCE-Typ) erfordern kein Null-Modem. Für einen DB25-Anschluß benötigen Sie ein Kabel mit der Bezeichnung p/n 59846-01-00. Für einen DB9-Anschluß ist ein Kabel mit der Bezeichnung p/n 59846-03-00 erforderlich (wenden Sie sich an Ihren Systembetreuer).



Kurzübersicht

Interne Modemverbindungen



Einige Ladestationen benutzen ein optional eingebautes Modem, das mit einer Übertragungsrate von bis zu 14.400 bps (bei v.42 bis Datenkompression) arbeitet. Wie in der Abbildung gezeigt, kann es durch den RJ-11-Port direkt mit einer Telefonleitung verbunden werden.

Es gibt spezifische Firmware-Einstellungen, die benutzt werden, um die Hard- und Software des Modems für einen korrekten Betrieb unter Einhaltung der gesetzlichen Vorschriften zu konfigurieren. Die Terminal-Anwendung erlaubt es, diese Einstellungen zu steuern und ermöglicht es Ihnen, die Einstellungen für Land/Region, Puls-/Ton-Wählbetrieb oder die Zeiteinstellung der Wahlwiederholung zu sehen und zu verändern. Eine falsche Definierung dieser Einstellungen kann zu unsachgemäßem Gebrauch des Modems führen und einen unzuverlässigen Betrieb verursachen. Für die korrekten Einstellungen sollten Anwendungsentwickler das 'Series 3000 Application Programmer's Reference Manual'

(Referenzhandbuch zur Anwendungsentwicklung - Serie 3000)
zu Rate ziehen.

Hinweis: *Das Basismodul des CRD3100-4000 Vierfachschlitz-Cradles ist **nicht** mit einem internen Modem ausgestattet.*

Für eine serielle Übertragung befolgen Sie die für den seriellen Cradle beschriebenen Schritte.

Wiederaufladen des Terminalakkus

Hinweis: *Das Verfahren zum Aufladen des Akkus ist für den Einzelschlitz- und Vierfachschlitz-Cradle gleich.*

- Wenn das Terminal korrekt in den Cradle eingesetzt ist, wird der NiCad-Akku stets automatisch aufgeladen. Dabei ist es unerheblich, ob das Terminal ein- oder ausgeschaltet ist.
- Das Terminal muß bis zu 90 Minuten im Cradle sitzen, um den Akku vollständig aufzuladen.

Vorsicht

Laden Sie den Akku nicht bei Temperaturen unter 0° C. Bei Temperaturen unter 0° C sollten Sie eine halbe Stunde warten, damit sich der Akku erwärmen kann.

- Das Terminal ist mit einem Sicherheitsmechanismus ausgestattet, der verhindert, daß Einweg-Alkalibatterien aufgeladen werden.

Kurzübersicht

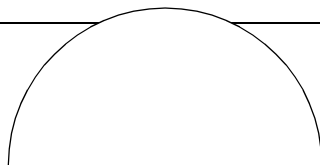
Anschließen anderer Cradles

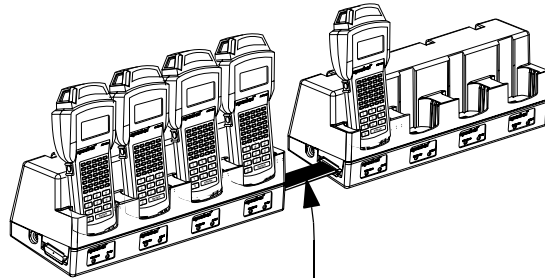
Es können bis zu 16 Vierfachschlitz-Cradles mittels eines RS-232 Cradle-Verbindungskabels (p/n 60427-00-00) in Reihe miteinander verbunden werden. Wenn Cradles über längere Verbindungskabel miteinander verbunden werden sollen, benutzen Sie ein Kabel des Typs p/n 51349-00-00. Einzelschlitz-Cradles können **nicht** miteinander verbunden werden.

Warnung

Jeder Cradle muß separat mit Strom versorgt werden; jede andere Art der Stromversorgung ist unsicher.

1. Stecken Sie ein Ende des Cradle-Verbindungskabels in den Kommunikationsport in der rechten Ecke des ersten Cradles.
2. Stecken Sie das andere Ende des Cradle-Verbindungskabels in den Kommunikationsport unter dem Stromanschluß in der linken Ecke des zweiten Cradles.





RS-232 Cradle-Verbindungskabel
p/n 60427-00-00

3. Schließen Sie den zweiten Vierfachschlitz-Cradle wie unter *Stromanschluß* beschrieben an das Stromnetz an.
4. Wiederholen Sie o.g. Schritte für alle weiteren Vierfachschlitz-Cradles, die Sie anschließen möchten.

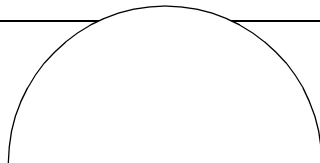
Daten übertragen

Hinweis: Das Verfahren für das Übertragen von Daten ist für den Einzelschlitz- und Vierfachschlitz-Cradle gleich.

1. Drücken Sie die von Ihrem Anwendungsprogramm geforderte Terminaltaste.
2. Die rote *COMM*-Anzeige des Cradles beginnt zu blinken, sobald die Übertragung startet.

Vorsicht

*Wenn Sie das Terminal aus dem Cradle nehmen, während die rote *COMM*-Anzeige leuchtet, wird die Verbindung zwischen Terminal und Host unterbrochen.*



Bedeutung der Anzeigen

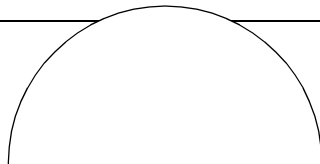
Hinweis: Die Bedeutung der Anzeigen sind beim Einzelschlitz- wie beim Vierfachschlitz-Cradle gleich.

Zustand	Ladeanzeigen	COMM-Anzeigen
EIN	Das Terminal sitzt korrekt im Cradle; das Terminal befindet sich im langsamen Lademodus (sofern es mit NiCad-Akkus ausgestattet ist).	Das Terminal kann Daten empfangen.
AUS	Das Terminal sitzt nicht korrekt im Cradle.	Das Terminal versucht nicht zu kommunizieren.
BLINKEND	Das Terminal sitzt korrekt im Cradle und wird schnellgeladen (90 Minuten).	Das Terminal kann Daten übertragen und empfangen.

Kurzübersicht

Fehlersuche

Symptom	Mögliche Ursache	Maßnahme
Die grüne und rote Anzeige leuchten nicht sofort auf, wenn der Cradle angeschlossen wird.	Der Cradle wird nicht mit Strom versorgt.	Achten Sie darauf, daß das Stromkabel korrekt angeschlossen ist und die Wandsteckdose unter Spannung steht.
Die grüne <i>CHARGING</i> -Anzeige leuchtet nicht auf, wenn das Terminal in den Cradle eingesetzt wird.	Das Terminal sitzt nicht fest im Cradle.	Setzen Sie das Terminal erneut in den Cradle; das Terminal muß einen festen Sitz haben.
	Das Terminal ist nicht eingeschaltet.	Schalten Sie das Terminal ein.
	Das Terminal hat keine Verbindung zum Cradle.	Versuchen Sie es mit einem anderen Terminal.
Der NiCad-Akku im Terminal wurde nicht aufgeladen.	Der Akku hat versagt.	Tauschen Sie den Akku aus.
	Das Terminal wurde zu früh aus dem Cradle genommen.	Setzen Sie das Terminal nochmals in den Cradle ein; das Aufladen eines völlig leeren Akkus dauert ca. 90 Minuten.



Symptom	Mögliche Ursache	Maßnahme
Es wurden keine Daten an den Host oder Drucker übertragen oder die an den Drucker oder Host übertragenen Daten waren unvollständig.	Das Terminal wurde aus dem Cradle genommen, während die rote <i>COMM</i> -Anzeige blinkte.	Tauschen Sie das Terminal im Cradle aus und starten Sie die Übertragung erneut.
	Es wurde kein Null-Modem benutzt.	Für Übertragungen zu DTE-Geräten ist ein Null-Modem erforderlich. Übertragen Sie erneut mit dem entsprechenden Null-Modem.
	Ungültige Konfiguration des Null-Modems.	Wenden Sie sich an Ihren Systembetreuer.

Kurzübersicht

Introduzione

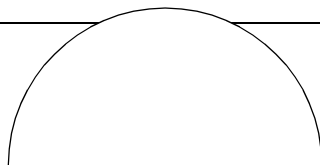
In questa guida vengono fornite informazioni relative all'installazione e al caricamento del modulo cradle CRD3100-1000 ad uno slot e del modulo cradle CRD3100-4000 a quattro slot, utilizzati dai terminali Symbol Technologies della serie 3100.

È disponibile l'opzione di montaggio a parete dei moduli cradle CRD3100-1000 e CRD3100-4000. È necessario un kit di staffe per montaggio a parete (n/p 62806-00-00) per il montaggio del modulo cradle CRD3100-1000 ad uno slot o due kit di staffe per il montaggio del modulo cradle CRD3100-4000 a quattro slot.

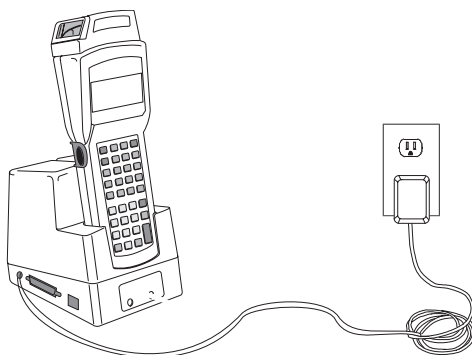
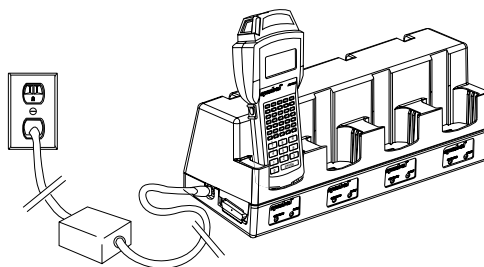
Alimentazione

Nota: *La procedura per l'alimentazione del cradle ad uno slot è identica a quella del cradle a quattro slot.*

1. Collegare la spina rotonda del cavo di alimentazione al connettore di alimentazione posto sul lato del cradle (CRD3100-1000: alimentatore n/p 59915-00-00 per uso nazionale, 60507-00-00 per uso internazionale; CRD3100-4000: alimentatore n/p 60153-00-00 per uso nazionale, 60174-00-00 per uso internazionale).
2. Collegare la spina a corrente alternata del cavo di alimentazione ad una presa elettrica standard.



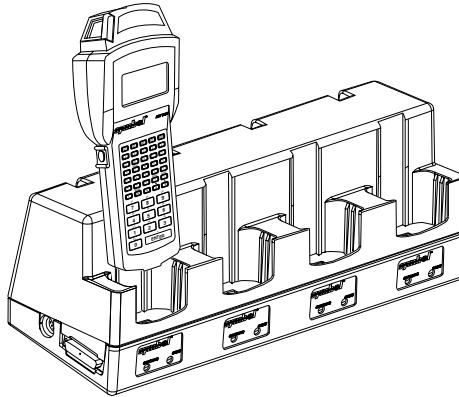
3. Le spie verdi e rosse si accendono per circa 3 secondi, lampeggiano per 3 secondi, quindi si spengono.



Inserimento del terminale nel cradle

1. Inserire con delicatezza la parte inferiore del terminale nello slot del cradle. **NON FORZARE.**

2. Si accende la spia verde *CHARGING* (di caricamento) e il terminale si accende. La spia verde lampeggia durante il caricamento rapido del terminale.



Per estrarre il terminale dal cradle, tirare verticalmente e sollevarlo.

Attenzione

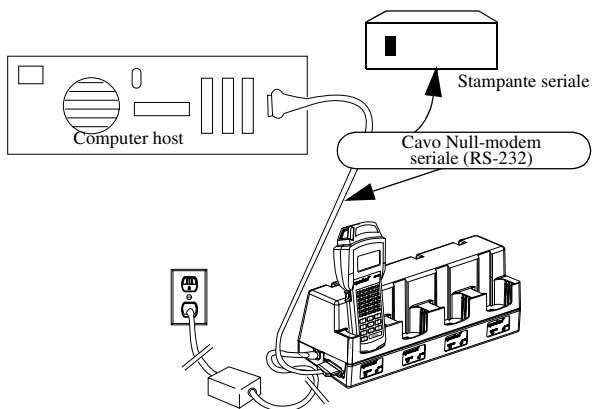
Se si estrae il terminale mentre la spia rossa COMM (di comunicazione) lampeggia, la comunicazione tra l'host e il terminale verrà interrotta.

Collegamento del cavo per la comunicazione di dati

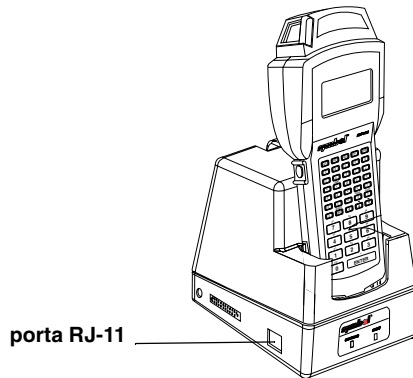
(ad un computer host, ad una stampante o ad un modem)

1. Inserire un cavo seriale RS-232 nella porta di comunicazione che si trova all'estremità sinistra del cradle accanto al connettore di alimentazione.
2. Collegare l'altra estremità del cavo alla porta seriale (COMM) del computer host o della stampante.

Nota: Nella maggior parte dei casi, è necessario utilizzare un cavo Null-modem. I modem e alcune stampanti seriali di tipo DCE, tuttavia, non necessitano di un cavo Null-modem. Per un collegamento DB25, è necessario un cavo n/p 59846-01-00. Per un collegamento DB9, è necessario un cavo n/p 59846-03-00 (contattare l'amministratore di sistema).



Collegamenti del modem interno



Alcune basi utilizzano un modem interno opzionale in grado di comunicare ad una velocità massima di 14.400 bps (con compressione dati v.42 bis). Il modem può essere collegato ad una linea telefonica tramite una porta RJ-11 come da illustrazione.

Nota: La base a quattro posizioni non è dotata di un modem interno.

Utilizzare le impostazioni firmware specificate per configurare il software e l'hardware del modem, per garantire prestazioni ottimali e per conformarsi alle normative in materia. Tramite l'applicazione installata sul terminale è possibile gestire queste impostazioni e visualizzare e modificare le impostazioni relative al paese/regione, selezionare la composizione a frequenza o a impulsi e specificare gli intervalli di connessione. L'errata definizione di queste impostazioni può dar luogo ad operazioni non valide del modem e influenzarne negativamente le

prestazioni. Per conoscere le impostazioni corrette consultare il Series 3000 Application Programmer's Reference Manual (Manuale di riferimento per il programmatore della Serie 3000).

Per le comunicazioni seriali, seguire la procedura fornita per il cradle seriale.

Ricarica della batteria nel terminale

Nota: La procedura per la ricarica della batteria nel cradle ad uno slot è identica a quella del cradle a quattro slot.

- La batteria al nichel-cadmio viene ricaricata automaticamente quando il terminale è inserito correttamente nel cradle anche se il terminale è spento.
- Il terminale deve essere lasciato nel cradle per 90 minuti per poter ricaricare una batteria completamente scarica.

Attenzione

Non caricare la batteria se ha una temperatura inferiore a 0° C (32° F). In tal caso, attendere mezz'ora finché la batteria non si è riscaldata.

- Il terminale è dotato di un meccanismo di sicurezza che impedisce il caricamento di batterie alcaline usa e getta.

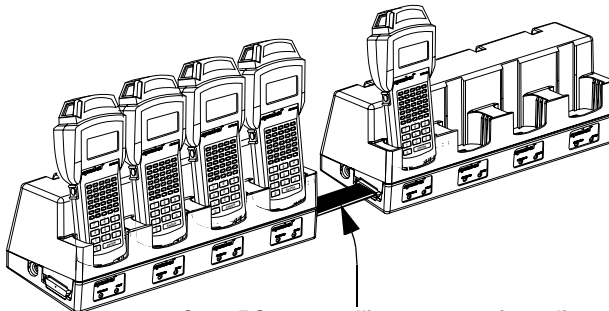
Collegamento ad altri cradle

È possibile collegare in serie fino a 16 cradle a quattro slot, utilizzando un cavo RS-232 per l'interconnessione di cradle n/p 60427-00-00. Per l'interconnessione di cradle che necessitano di un cavo più lungo, utilizzare un cavo n/p 51349-00-00. **Non** è possibile collegare tra loro dei cradle ad uno slot.

Avvertenza

È necessario che ciascun cradle abbia un proprio cavo di alimentazione; qualsiasi altro metodo di alimentazione non è sicuro.

1. Inserire un'estremità del cavo per l'interconnessione di cradle nella porta di comunicazione che si trova all'estremità destra del primo cradle.
2. Inserire l'altra estremità del cavo per l'interconnessione di cradle nella porta di comunicazione che si trova accanto al connettore di alimentazione all'estremità sinistra del secondo cradle.



**Cavo RS-232 per l'interconnessione di cradle
60247-00-00**

3. Collegare l'alimentatore al secondo cradle a quattro slot, come descritto nella sezione *Alimentazione*.
4. Ripetere i passaggi sopra indicati per il collegamento di qualsiasi cradle a quattro slot aggiuntivo.

Invio di dati

Nota: La procedura per l'invio di dati utilizzando il cradle ad uno slot è identica a quella per il cradle a quattro slot.

1. Premere il tasto appropriato sul terminale, come richiesto dal programma applicativo.
2. La spia rossa COMM del cradle lampeggia all'inizio della comunicazione.

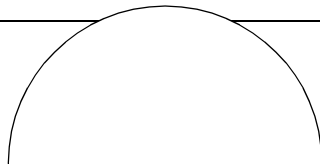
Attenzione

Se si estrae il terminale mentre la spia rossa COMM lampeggia, la comunicazione tra l'host e il terminale verrà interrotta.

Significato delle spie

Nota: Le spie luminose del cradle ad uno slot hanno lo stesso significato di quelle del cradle a quattro slot.

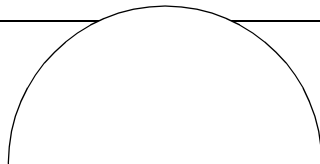
Condizione	Spie di CHARGING	Spie COMM
ACCESO	Il terminale è posizionato correttamente nel cradle e sta caricando lentamente (se dotato di batteria al nichel-cadmio).	Il terminale può soltanto ricevere dati.
SPENTO	Il terminale non è posizionato correttamente nel cradle.	Il terminale non sta tentando di comunicare.
LAMPEGGIANTE	Il terminale è posizionato correttamente nel cradle e sta caricando rapidamente (90 minuti).	Il terminale può inviare e ricevere dati.



Risoluzione dei problemi

Problema	Possibile causa	Azione
Le spie verdi e rosse non si accendono subito quando il cradle viene inserito.	Il cradle non è alimentato.	Assicurarsi che il cavo di alimentazione sia collegato fermamente e che la presa a muro fornisca l'alimentazione.
La spia verde CHARGING non si accende quando il terminale è inserito nel cradle.	Il terminale non è inserito correttamente nel cradle.	Ricollocare il terminale nel cradle; il terminale deve essere inserito fermamente.
	Il terminale non è acceso.	Accendere il terminale.
	Il terminale non comunica con il cradle.	Provare con un altro terminale.
La batteria al nichel-cadmio nel terminale non si è ricaricata.	La batteria è guasta.	Sostituire la batteria.
	Il terminale è stato rimosso dal cradle troppo presto.	Ricollocare il terminale nel cradle; sono necessari circa 90 minuti per ricaricare una batteria completamente scarica.

Problema	Possibile causa	Azione
Non è stato trasmesso alcun dato all'host o alla stampante oppure i dati trasmessi sono incompleti.	Il terminale è stato rimosso dal cradle quando la spia rossa COMM stava lampeggiando.	Ricollocare il terminale nel cradle e ripetere la trasmissione.
	Non è stato utilizzato il cavo Null-modem.	Il cavo Null-modem è necessario per le comunicazioni con periferiche DTE. Ripetere la trasmissione utilizzando un cavo Null-modem appropriato.
	Configurazione Null-modem non corretta.	Contattare l'amministratore di sistema.



Introducción

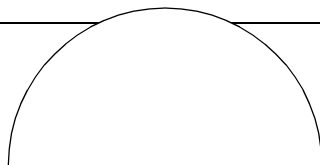
Esta guía presenta información sobre la instalación y carga de los módulos base de soportes CRD3100-1000 de una única ranura, y CRD3100-4000 de cuatro ranuras, que se emplean con los terminales de la serie 3100 de Symbol Technologies.

También puede utilizar la opción de montaje en pared de los módulos de base de soportes CRD3100-1000 y CRD3100-4000. Necesitará un conjunto de abrazadera de montaje en pared (número de referencia 62806-00-00) para acoplar el módulo base de soporte CRD3100-1000 de una sola ranura o dos conjuntos para el CRD3100-4000 de cuatro ranuras.

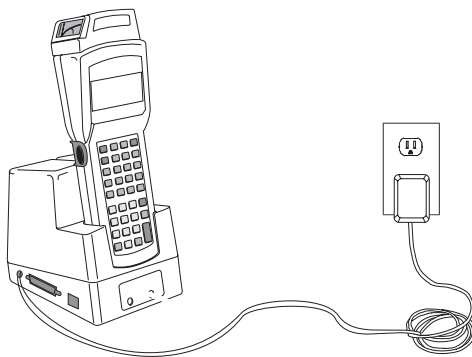
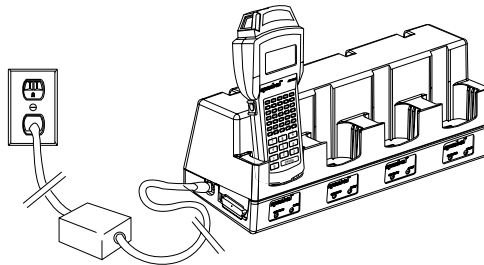
Conexión de la fuente de alimentación

Nota: *El procedimiento de conexión con la fuente de alimentación es el mismo tanto para el soporte de una como para el de cuatro ranuras.*

1. Conecte el enchufe redondo del cable de la fuente de alimentación al conector situado en el lateral del soporte (fuente de alimentación: para el CRD3100-1000, números de referencia 59915-00-00 para uso nacional y 60507-00-00 para uso internacional; para el CRD3100-4000, números de referencia 60153-00-00 para uso nacional y 60174-00-00 para uso internacional).
2. Conecte el enchufe de CA del cable de alimentación a una toma de corriente eléctrica estándar.



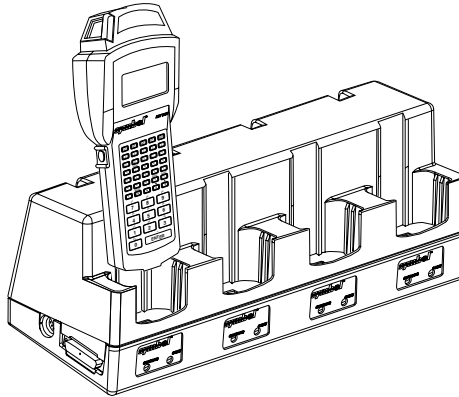
3. Los indicadores luminosos verde y rojo se encenderán tres segundos, estarán intermitentes otros tres y a continuación se apagarán.



Colocación del terminal en el soporte

1. Coloque con cuidado la parte inferior del terminal dentro de la ranura del soporte. NO LO FUERCE.

2. Se enciende tanto el indicador luminoso *CHARGING* de color verde como el terminal. El indicador de color verde está intermitente mientras se ejecuta la carga rápida.



Para extraer el terminal tire de él hacia arriba hasta sacarlo del soporte.

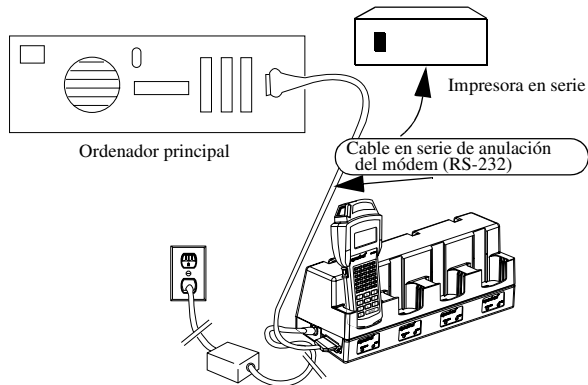
Cuidado

Si extrae el terminal mientras el indicador luminoso COMM de color rojo del soporte está encendido de forma intermitente, se interrumpirá la comunicación entre el sistema principal y el terminal.

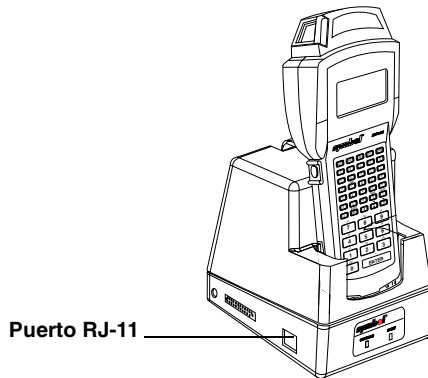
Conexión del cable para las comunicaciones de datos (con un ordenador principal, impresora o módem)

1. Enchufe un extremo del cable en serie RS-232 al puerto de comunicaciones situado en el lateral izquierdo del soporte próximo al conector de la fuente de alimentación.
2. Conecte el otro extremo del cable al puerto de comunicaciones en serie (COMM) del ordenador principal o impresora.

Nota: Por lo general, deberá usar un cable de anulación del módem. No obstante, ciertos módems e impresoras en serie (tipo DCE) no precisan un cable de anulación del módem. Para una conexión DB25 precisará un cable cuyo número de referencia es el 59846-01-00. Para una conexión DB9, indique el número de referencia 59846-03-00 (consulte al administrador del sistema).



Conexiones del módem interno



Algunas cunas utilizan un módem interno opcional que se comunica a velocidades de hasta 14.400 bps (con una compresión de datos de v.42 bis). Éste puede conectarse directamente a una línea telefónica mediante el puerto RJ-11 que se muestra en la ilustración.

Nota: la cuna de cuatro ranuras no contiene un módem interno.

Existen parámetros específicos de firmware que se utilizan para configurar el hardware y software del módem para que éste funcione correctamente y cumpla con las normativas. La aplicación del terminal puede controlar estos parámetros y permitir visualizar y modificar los parámetros según el país o región, la marcación por pulso o tono, o el intervalo de tiempo de repetición de la marcación. Una definición incorrecta de estos parámetros puede redundar en la utilización ilegal del módem y producir un funcionamiento poco confiable. El programador de la aplicación debe consultar el 'Series 3000 Application

Programmer's Reference Manual' (Manual de referencia del programador de la aplicación de la serie 3000) para obtener los parámetros correctos.

Para las comunicaciones en serie, siga las instrucciones referentes al soporte en serie.

Recarga de la batería del terminal

Nota: El procedimiento de recarga de las baterías es el mismo tanto para el soporte de una como para el de cuatro ranuras.

- La batería de NiCad se recarga automáticamente cuando el terminal está bien colocado en el soporte. No es necesario que el terminal esté encendido.
- El terminal debe permanecer en el soporte hasta 90 minutos para reponer una batería totalmente descargada.

Cuidado

No cargue la batería cuando su temperatura sea inferior a 0° C. En este caso, espere una media hora a que la batería se caliente.

- El terminal contiene un mecanismo de seguridad que impide cargar pilas alcalinas.

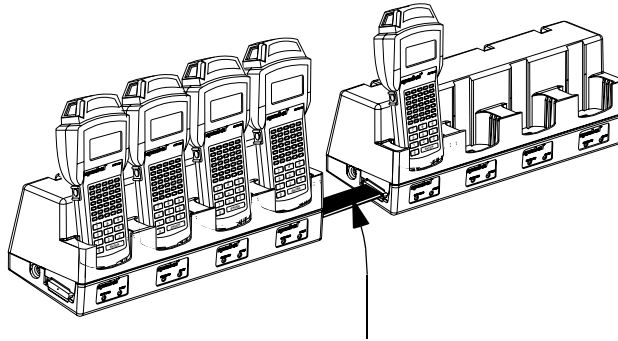
Conexión de otros soportes

Pueden interconectarse en serie hasta 16 soportes de cuatro ranuras mediante un cable RS-232 (número de referencia 60427-00-00). Para la interconexión de soportes en las que se precisa un cable más largo, utilice el número de referencia 51349-00-00. Los soportes de una sola ranura **no** pueden interconectarse.

Advertencia

Cada soporte debe disponer de fuente de alimentación propia, dado lo precario de cualquier otro método de conexión de alimentación.

1. Enchufe un extremo del cable conector de soportes al puerto de comunicaciones situado en el lateral derecho del primer soporte.
2. Enchufe el otro extremo del cable al puerto de comunicaciones situado junto al conector de alimentación del lateral izquierdo del segundo soporte.



**Cable de interconexión de soportes RS-232
núm. ref.: 60427-00-00**

3. Conecte la fuente de alimentación al segundo soporte de cuatro ranuras tal y como describe el apartado *Conexión de la fuente de alimentación*.

4. Repita los pasos citados con cada soporte adicional de cuatro ranuras que desee conectar.

Envío de datos

***Nota:** El procedimiento de envío de datos es el mismo tanto para el soporte de una como para el de cuatro ranuras.*

1. Pulse la tecla correspondiente del terminal que precisa el programa de aplicación.
2. El indicador luminoso *COMM* de color rojo se enciende de forma intermitente cuando comienza la comunicación.

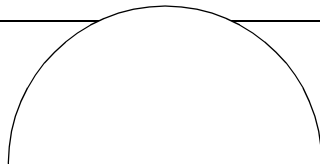
Cuidado

*Si extrae el terminal mientras el indicador luminoso *COMM* de color rojo del soporte se enciende de forma intermitente, se interrumpirá la comunicación entre el sistema principal y el terminal.*

Significado de los indicadores luminosos

Nota: Los indicadores luminosos del soporte de una sola ranura tienen el mismo significado que los de cuatro.

Condición	Indicador CHARGING	Indicador COMM
Encendido	El terminal está bien colocado en el soporte y se está cargando lentamente (si está equipado con baterías de NiCad).	El terminal sólo está preparado para recibir datos.
Apagado	El terminal no está bien colocado en el soporte.	El terminal no intenta comunicarse.
Intermitente	El terminal está bien colocado en el soporte y se está cargando rápidamente (90 minutos).	El terminal está preparado para enviar y recibir datos.

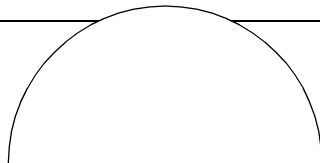


Solución de problemas

Síntoma	Causa posible	Acción
Los indicadores luminosos rojo y verde no se encienden de forma momentánea cuando se conecta el soporte.	El soporte no recibe alimentación.	Asegúrese de que el cable de alimentación está bien conectado y que la toma de corriente no presenta problemas.
El indicador verde <i>CHARGING</i> no se enciende cuando se introduce el terminal en el soporte.	El terminal no está bien colocado en el soporte.	Vuelva a colocar el terminal en el soporte, debe quedar bien asegurado.
	El terminal no está encendido.	Encienda el terminal.
	El terminal no se comunica con el soporte.	Pruebe otro terminal.
La batería de NiCad del terminal no se ha recargado.	La batería ha fallado.	Sustituya la batería.
	Ha extraído el terminal del soporte demasiado pronto.	Vuelva a colocar el terminal en el soporte, se precisan 90 minutos para recargar una batería totalmente descargada.

Síntoma	Causa posible	Acción
No se transmitieron datos al sistema principal o a la impresora, o bien la información estaba incompleta.	Retiró el terminal del soporte mientras el indicador luminoso <i>COMM</i> de color rojo estaba intermitente.	Vuelva a colocar el terminal en el soporte y repita la transmisión.
	No se utilizó la anulación del módem.	Para efectuar comunicaciones con dispositivos DTE se precisa la anulación del módem. Retransmita utilizando la anulación de módem adecuada.
	La configuración de anulación del módem es incorrecta.	Consulte al administrador del sistema.

Radio Frequency Interference Requirements



Regulatory Information

All Symbol devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

Any changes or modifications to Symbol Technologies equipment, not expressly approved by Symbol Technologies, could void the user's authority to operate the equipment.

Ergonomic Recommendations

Caution: In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

Radio Frequency Interference Requirements

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Radio Frequency Interference Requirements - Canada

This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.
Marking and European Economic Area (EEA)

Statement of Compliance

Symbol Technologies, Inc., hereby declares that this device is in compliance with all the applicable Directives, 89/336/EEC, 73/23/EEC. A Declaration of Conformity may be obtained from <http://www2.symbol.com/doc/>

Quick Reference

TELECOM APPROVAL WARNINGS AND NOTICES

This product contains Symbol Modem Type IM8

Connecting to the telephone network

A compliant telephone lead is required with RJ11 plug (line is on middle pair) for connection to modem, terminated with an appropriate and correctly wired local telecom connector compatible with the telephone network. Such a cable may be sourced from your local supplier. Alternatively, compliant RJ11 plug to RJ11 plug cables may be used with a range of adapters for places such as Europe.

CAUTION: To reduce risk of fire, use only No. 26 AWG or larger telecommunication line cord.

User and Service Access - No part of the modem, other than the line connection plug, is accessible to users.

United States

Where this device contains a Symbol Technologies, Inc. internal modem, the label on the equipment exterior will contain a number in the form US: 1K0DTabcXXXX. This will indicate the equipment meets the requirements of FCC 47 CFR Part 68, including those published by ACTA. Where 'ab' is the Ringer Equivalence Number with decimal point, 'c' is the ringer type letter and 'XXXX' is model number.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs may result in the device not ringing in response to an incoming call. In most but not all areas, the sum of the RENs should not exceed 5.0. To be certain of the number of devices that may be connected to the line (as determined by the total number of RENs) contact the local telephone company.

This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack (RJ11C) that is FCC Part 68 compliant. A FCC compliant telephone cord and modular plug must be used.

Should you experience trouble with this telephone equipment, please contact your facility's Technical or Systems Support first who will contact your nearest Symbol Customer Service Centre. If necessary, the Symbol Support Centre may be contacted at: 1-800-653-5350

If the modem causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. However, if advance notice is not practical, you will be notified as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the modem. If this happens the telephone company will provide advance notice so you may make any necessary modifications to maintain uninterrupted service.

Fax



The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including fax machines, to send any message unless it clearly contains a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.) In order to program this information into your fax/modem, you should consult documentation supplied with the necessary fax driver application software being used with the host terminal.

Canada

Where this equipment contains a modem supplied by Symbol Technologies, Inc., the Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: User should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

The European Economic Area (EEA)

Statement of Compliance for Modems

Symbol Technologies, Inc., hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A Declaration of Conformity may be obtained from <http://www2.symbol.com/doc/>

The modem is designed to interwork with the following Public Switched Telephone Networks: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Liechtenstein, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

Warranty

Symbol Technologies, Inc. ("Symbol") manufactures its hardware products in accordance with industry-standard practices. Symbol warrants that for a period of twelve (12) months from date of shipment, products will be free from defects in materials and workmanship.

This warranty is provided to the original owner only and is not transferable to any third party. It shall not apply to any product (i) which has been repaired or altered unless done or approved by Symbol, (ii) which has not been maintained in accordance with any operating or handling instructions supplied by Symbol, (iii) which has been subjected to unusual physical or electrical stress, misuse, abuse, power shortage, negligence or accident or (iv) which has been used other than in accordance with the product operating and handling instructions. Preventive maintenance is the responsibility of customer and is not covered under this warranty.

Wear items and accessories having a Symbol serial number will carry a 90-day limited warranty. Non-serialized items will carry a 30-day limited warranty.

Warranty Coverage and Procedure

During the warranty period, Symbol will repair or replace defective products returned to Symbol's manufacturing plant in the US. For warranty service in North America, call the Symbol Support Center at 1-800-653-5350. International customers should contact the local Symbol office or support center. If warranty service is required, Symbol will issue a Return Material Authorization Number. Products must be shipped in the original or comparable packaging, shipping and insurance charges prepaid. Symbol will ship the repaired or replacement product freight and insurance prepaid in North America. Shipments from the US or other locations will be made F.O.B. Symbol's manufacturing plant.

Symbol will use new or refurbished parts at its discretion and will own all parts removed from repaired products. Customer will pay for the replacement product in case it does not return the replaced product to Symbol within 3 days of receipt of the replacement product. The process for return and customer's charges will be in accordance with Symbol's Exchange Policy in effect at the time of the exchange.

Customer accepts full responsibility for its software and data including the appropriate backup thereof.

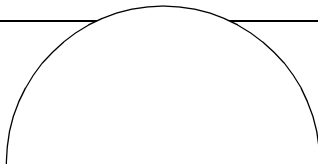
Repair or replacement of a product during warranty will not extend the original warranty term.

Symbol's Customer Service organization offers an array of service plans, such as on-site, depot, or phone support, that can be implemented to meet customer's special operational requirements and are available at a substantial discount during warranty period.

General

Except for the warranties stated above, Symbol disclaims all warranties, express or implied, on products furnished hereunder, including without limitation implied warranties of merchantability and fitness for a particular purpose. The stated express warranties are in lieu of all obligations or liabilities on part of Symbol for damages, including without limitation, special, indirect, or consequential damages arising out of or in connection with the use or performance of the product.

Seller's liability for damages to buyer or others resulting from the use of any product, shall in no way exceed the purchase price of said product, except in instances of injury to persons or property.



Service Information

Before you use the unit, it must be configured to operate in your facility's network and run your applications. If you have a problem running your unit or using your equipment, contact your facility's Technical or Systems Support. If there is a problem with the equipment, they will contact the Symbol Support Center:

United States ¹	1-800-653-5350 1-631-738-2400	Canada	905-629-7226
United Kingdom	0800 328 2424	Asia/Pacific	337-6588
Australia	1-800-672-906	Austria/Österreich	1-505-5794-0
Denmark/Danmark	7020-1718	Finland/Suomi	9 5407 580
France	01-40-96-52-21	Germany/Deutschland	6074-49020
Italy/Italia	2-484441	Mexico/México	5-520-1835
Netherlands/Nederland	315-271700	Norway/Norge	+47 2232 4375
South Africa	11-8095311	Spain/España	+913244000
Sweden/Sverige	84452900		
Latin America Sales Support	1-800-347-0178 Inside US +1-561-483-1275 Outside US		
Europe/Mid-East Distributor Operations	Contact local distributor or call +44 118 945 7360		

¹Customer support is available 24 hours a day, 7 days a week.

For the latest version of this guide go to:<http://www.symbol.com/manuals>.



70-11313-03
Revision B - March 2002