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***IPTran***  
**Installation & Configuration Guide**

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*Version 1.01*

*For Sterling Payment Technologies*

# ***IPTran Installation & Configuration Guide***

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## ***Version Support***

This document supports the following application versions:

IPTran Sterling, Version 1.01

DataTran: SGH50414.ABS (or later).

## ***Payment Processor Support***

This document supports the following payment processor:

***Sterling Payment Technologies***

## ***Technical Support***

Datacap provides telephone and e-mail based support. Contact Datacap Support by phone, Monday through Friday from 8:30 AM to 5:30 PM Eastern time.

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# **OVERVIEW**

## **Introduction**

### **About IPTran**

The IPTran is designed to allow POS systems that use DataTran to process transactions via IP and use direct dial as back up. This allows integrators to offer fast IP transactions over the Internet without any code changes in their systems. Since the DataTran retains its internal modem functions, direct dial backup to the processor provides the most reliable backup possible.

### **About Datacap**

Datacap Systems, Inc. develops and markets electronic payment interfaces that enable cash register and business systems developers to add electronic payment acceptance to their systems.

Datacap has various solutions that interface to virtually any hardware or software platform and send transactions to all major payment processors via most common communications technologies including dial, wireless, and Internet.

## **What's Included with your IPTran**

The *IPTran* system includes the following components in the shipping box:

- **IPTran** – The IPTran unit with power, Ethernet and three serial connectors. The IPTran has the software to support secure IP communications to Sterling Payment Technologies installed at the factory.
- **Cable**– An RS232 cable terminated with a micro DIN 6 pin connector on each end. This is used to connect the DataTran 162 ML, SL, ND or LT AUX RS232 port to the IPTran COM1 port.
- **Power Transformer** – for use with 110V AC power.
- **IPTran Installation Guide** – This installation guide.

## **How it works**

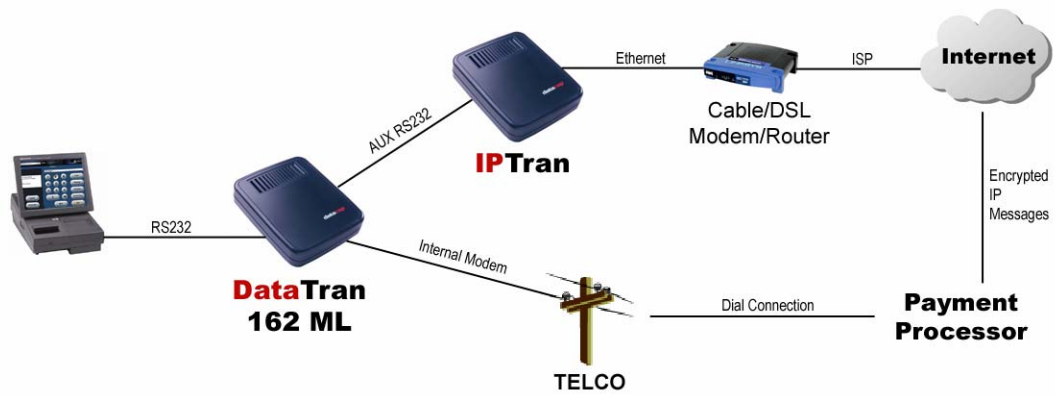
The IPTran is designed to allow POS systems that use DataTran to process transactions via IP and use direct dial as back up. The POS is connected to a DataTran 162 ML, SL, ND or LT via the ECR port. The DataTran 162 ML, SL, ND or LT is connected to the COM1 port of the IPTran with a cable to the AUX RS232 port. The IPTran is also connected via the Ethernet connector to a persistent IP connection with DHCP server available.

When the DataTran receives a transaction request from the POS system, it first attempts to transmit the request to the IPTran over the serial interface rather than using its internal modem to dial using the phone system. The IPTran then reformats, encrypts and transmits the message to the processor. When the IPTran receives a response from the processor, it decrypts and reformats the response and sends it back to the DataTran over the serial connection.

If the IPTran is unable to process the transaction, it will return an error code to the DataTran. If the DataTran has been configured to use its internal modem to connect on its second attempt, it will then dial the processor using the phone system.

By using dial up communications automatically over the phone system for backup, outages in IP service does not halt payment processing. If desired, the DataTran can be configured to use only IPTran without dial backup.

A typical configuration for a DataTran/IPTran is as follows:



# **INSTALLATION**

## **Requirements**

### **Networking Requirements**

To successfully install and run *IPTran*, you should confirm that there are networking services available with the following characteristics:

- An Ethernet connection supporting TCP/IP network connectivity and DNS.
- A persistent Internet connection; cable, DSL, dedicated line, frame relay, etc. Dial access that holds an open line will also work due to low bandwidth requirements.
- Active DHCP server availability. *IPTran* obtains a dynamically assigned IP address from a DHCP server. A router or switch with a DHCP server is ideal.

### **DataTran Requirements**

To successfully install and run *IPTran*, you should confirm that a *DataTran* is attached to the POS system with following characteristics:

- *DataTran 162 ML or ND* model
- Sterling Payment Technologies software; version SGH50414.ABS (or later).
- Merchant parameters modified to utilize the *IPTran* on the *DataTran* AUX RS232 port.

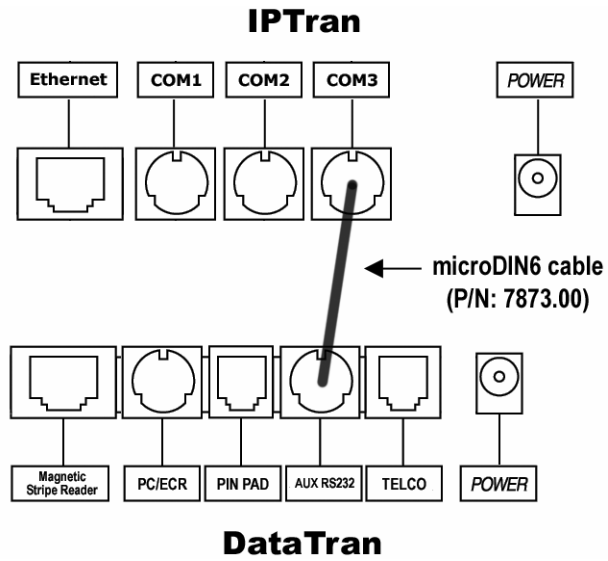
## **Installation Procedure**

### **Connecting the DataTran**

Before you begin installing *IPTran*, you should attach the *DataTran 162 ML or ND* to the ECR/POS system and configure it in the usual manner. Refer to the *DataTran Installation Guide* packed with the *DataTran 162 ML, SL, ND or LT* if you need assistance. Connect the power to the *DataTran* and verify that the red LED on the left front of the *DataTran* is lit.

### **Connecting the IPTran**

After the *DataTran* is connected to the POS, connect the *IPTran* to the *DataTran* with the supplied microDIN6 cable (P/N: 7873.00). Connect the **AUX RS232** port on the *DataTran* to the **COM3** port on the *IPTran*.



Connect the *IPTran* Ethernet port to the network using an appropriate cable type and length having an RJ45 modular connector at the *IPTran* end.

**Note:**

*IPTran* must be connected to a network with an active DHCP server so that it can acquire a non conflicting IP address.

Connect the power to the *IPTran* and verify that the red LED on the left front of the *IPTran* is illuminated within ten seconds. If this LED does not light within that time, verify the network cable and status, disconnect the power and reconnect the power.

**Note:**

The red LED on the front edge of the *IPTran* must be illuminated indicating that it's NIC (Network Interface Controller) is properly initialized.

# **CONFIGURATION & TESTING**

## **Introduction**

This chapter explains how to configure and test the *DataTran* and *IPTran*.

*IPTran* is delivered with all internal software and settings loaded at the factory. Other than properly connecting *IPTran*, there is no other hardware or software setup.

The *DataTran* must be loaded with the appropriate network version and parameters must be set to utilize the attached *IPTran*.

## **Configuration**

The *DataTran* must be loaded with Sterling Payment Technologies software; version SGH50414.ABS (or later).

### **Setting DataTran Parameters**

The *DataTran* should first be programmed with the merchant’s personalized parameter information supplied by Sterling Payment Technologies or the merchant’s bank or service provider as if it were a normal *DataTran* dial installation. To enable *IPTran* operation, the following *DataTran* parameters must be set as indicated:

	Internet for all communications	DMP	WinPopSetup
TID7	Main (Primary) Settlement Method	2	D
TID9	Alternate (Secondary) Settlement Method	2	D
	Main Authorization Access Method	2	DDOV
	Alternate Authorization Access Method	2	DDOV

The above changes will enable the *IPTran* to use the Internet for both Main and Alternate access to Sterling Payment Technologies.

If a phone line is available and dial backup directly to Sterling Payment Technologies is desired, then only the Main Access methods should be changed. Use the following template for dial backup operation:



Dial Backup Configuration		DMP	WinPopSetup
TID7	Main (Primary) Settlement Method	2	D
	Main Authorization Access Method	2	DDOV

## Testing

### **Important! - Before You Start**

You should arrange with your bank and payment processor for testing *IPTran* and all other related components before going live.

**It is the sole responsibility of the merchant account holder to verify that the merchant information entered into *DataTran* is correct.**

**You should only process actual payments after verification that all test transactions have been successfully deposited.**

Datacap Systems is not responsible for typographical errors, data entry errors or any other inaccuracies arising out of the creation and/or downloading of merchant data.

Furthermore, Datacap Systems shall not be liable for any errors or for incidental or consequential damages in connection with the use of the software or other programmed information, including customer supplied or Datacap supplied information.

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