

PBXpress[™]

Call Record Buffer - Model 525

User's Manual

Release 1.0

Omnitronix, Inc.

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PBXpress - Model 525

Release 2.0

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PBXpress Model 525 User's Manual

This User's Manual describes the operation of the PBXpress Call Record Buffer - Model 525. This manual also gives additional information on the installation of the unit. The information presented here is provided to assist in the installation and use of the Model 525, and is subject to change without notice.

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Additional help with the installation and use of the Model 525 can be obtained by calling Omnitronix Technical Support at (206) 624-4985.

WARRANTY

Omnitronix, Inc. hereby warrants that it will repair or replace, at its option, any part of the PBXpress Call Record Buffer - Model 525 which proves to be defective by reason of improper materials or workmanship, without charge for parts or labor, for a period of 12 (twelve) months. This warranty period commences on the date of original purchase by the buyer for purposes other than for resale, and this warranty only applies to the original purchaser of the unit for purposes other than for resale.

To obtain service under this warranty, you must obtain, either by telephone or letter, a return authorization number from Omnitronix Technical Support. This authorization number may be obtained by contacting Omnitronix Technical Support at the address and/or phone number below. The defective unit is to be returned to Omnitronix with shipping prepaid, and the return authorization number must be clearly marked on the outside of the package containing the defective unit.

The dealer's bill of sale or other satisfactory proof of the date of purchase may be required to be presented in order to obtain service under this warranty.

This warranty applies if your PBXpress Call Record Buffer - Model 525 fails to function properly under normal use and within the manufacturer's specifications. This warranty does not apply if, in the opinion of Omnitronix, Inc., the unit has been damaged by misuse, neglect, or improper packing, shipping, modification or servicing by other than Omnitronix or an authorized Omnitronix Service Center.

In no event shall Omnitronix, Inc. be liable for any loss, inconvenience or damage, whether direct, incidental, consequential or otherwise, with respect to the PBXpress Call Record Buffer - Model 525. Omnitronix, Inc.'s liability shall be limited to the purchase price of the Model 525.

No warranty of fitness for purpose or of fitness of the Model 525 for any particular application is provided. It is the responsibility of the user to determine fitness of the PBXpress Model 525 for any particular application or purpose.

This warranty gives you specific legal rights. These rights may vary from state to state, as some states do not allow limitations on liability.

You may request information on how to obtain service under this warranty by contacting Omnitronix Technical Support at the address and phone number below:

**Omnitronix Technical Support
760 Harrison Street
Seattle, Wa 98109
(206) 624-4985**

GENERAL OPERATIONAL FEATURES

The PBXpress Model 525 is a data receipt, storage, and transfer device designed for Call Accounting records and other record oriented data applications. It is designed for high reliability, and intelligent processing and transfer of its stored data.

The PBXpress has a male DB25 RS232 compatible input port and a female DB25 RS232 compatible output port. Each can be independently configured for baud rates up to 19,200 baud, plus parity, word length, and handshaking selections. Additionally, the PBXpress has an option for an internal 300/1200 baud modem.

Selections and indicators are provided through a front panel switch and a set of 9 LEDs, three banks of DIP switches accessible from the underside of the unit, and through software control features described herein. The DIP switch selections allow configuration of the RS232 ports, plus selection of a number of operational settings. The front panel controls include a Hold/Release switch controlling the release of stored data. LED indications include Power, Hold, Data In, Data Out, Modem, plus 20%, 40%, 60%, and 80% full.

The PBXpress accepts and stores data from an RS232 source connected to its input port. This data is usually in the form of a sequence of information records, each terminated by a carriage return, linefeed, or both. The PBXpress can be configured to accept all incoming characters, or it can be set to strip out non-printable ASCII control characters, thereby conserving PBXpress memory space. This feature is useful with devices such as the Mitel SMarT-1™ Call Controller or Operator Access Controller. A secondary, intelligent filter can be programmed which will analyze and then accept or reject storage of individual call records based upon the information contained in that call record. Examples would be only those call records relating to certain extensions, or within certain hours, or to selected area codes.

The PBXpress has a data compression selection which can increase the effective storage capacity of its internal memory. Once the record has been accepted for storage, it is analyzed and compressed to achieve a 35% to 65% reduction in its size. The records can be output from the buffer still in compressed form or they can be restored to their original form before output.

METHODS OF RELEASING DATA

The PBXpress can release its stored data using several different data release options. These include:

- XON/XOFF or DTR flow controlcharacter oriented format
- Record Command Moderecord oriented format
- PROMPT Mode record oriented format
- XMODEM Transfer Mode packet oriented format

The XON/XOFF and/or DTR option allows you to use the buffer as a simple storage device controlled only by XON/XOFF codes and/or a valid DTR signal (depending on the handshaking selection of the output port). This is the simplest transfer method but it provides the least reliability. When the buffer is first powered on, it assumes the handshaking status of the output port to be FALSE, meaning no data can be released from the buffer. Then, depending on the DIP switch handshaking selection for the output port, the PBXpress will watch for the receipt of a valid handshaking signal (an XON and/or DTR signal) at which time it will then start releasing its data. The most common use of this mode is with XON/XOFF handshaking. However, this data release method requires that when the buffer is empty, an XOFF code must be sent to the buffer as the last action. Otherwise any new data will just pass right through the buffer without being stored.

The Record Command Mode gives you much better control over the transfer of your data. A series of "data release" commands can be used to transfer information, one or more records at a time, each time you send a certain command. After the desired records have been successfully transferred, you then send a command to "clear" the buffer of the now transferred records. Until you clear the records which have been transferred, they can be re-transferred as many times as necessary.