

# 3632-80 12-Channel & 3632-81 6-Channel Office Channel Unit – Data Port Installation Guide

## GENERAL DESCRIPTION

### Document Purpose

This document provides general, installation, and testing information for the 12 channel and 6 channel Office Channel Units—Data Port (OCU-DP). This document covers model numbers 3632-80 and 3632-81.

### Equipment Function

The OCU-DP is part of the 360-80 Intelligent Channel Bank (ICB). This unit is used to provide digital data service (DDS) at rates of 2.4, 4.8, 9.6, 19.2, 56 and 64 Kbps.

### Equipment Location/Mounting

The 3632-80 mounts in any full-size slot of the 360-80 ICB). The 3632-81 mounts in the half-size slot of the ICB.

The 3632-81 must be mounted in an issue 2 or later ICB shelf.

### Control Interface

This unit is managed through the craft port or the Network Management Software (NMS), which controls the provisioning of the unit and obtains status information from the unit. Provisioning is described in the Optioning section of this document. For operation, see the craft port or NMS documentation.

This unit will maintain its default provisioning until that provisioning is altered through the control interface. If this unit's provisioning is changed, it will maintain the new provisioning even if power is lost. If replaced with a new unit, the new unit will default to the same provisioning as was set for the prior unit. If this unit is installed in a location that was used by a different type of unit, this unit will use its own default provisioning.

## INSPECTION

### Inspect for Damages

Inspect the equipment thoroughly upon delivery. If the equipment has been damaged in transit, immediately report the extent of damage to the transportation company.

### Equipment Identification

Charles Industries' equipment is identified by a model and issue number imprinted on the front panel or located elsewhere on the equipment. Each time a major engineering design change is made on the equipment, the issue number is advanced by 1 and imprinted on subsequent units manufactured. Therefore, be sure to include both the model number and its issue number when making inquiries about the equipment.



**To prevent electrostatic charges from damaging static-sensitive units:**

**Use approved static-preventive measures (such as static-conductive wrist straps and static-dissipative mats) at all times whenever touching units outside of their original, shipped, protective packaging.**

**Do not ship or store units near strong electrostatic, electromagnetic, or magnetic fields.**

**Always use the original static-protective packaging for shipping or storage.**

## INSTALLATION

### Installing a New Unit

Step	Action
1.	If not already installed, install the rear panel, screwing it to the appropriate mounting locations on the shelf using the provided hardware.
2.	Insert the unit into the shelf, making sure that the unit is aligned with the card guides inside the shelf.
3.	Slide the unit fully in to the shelf.

Step	Action
4.	Once the unit is fully inserted, tighten the securing screw on the front panel of the unit.
5.	Wire the unit per the wiring information in the wiring section.  The unit will perform a self-test to ensure that it is compatible with the network management software on the system.
6.	After the self-test is performed, check the software provisioning of the card using either the front panel craft interface on the front of the controller unit or the network management interface on the rear of the controller (see the section on network management for more information on the operation of this interface).

### Installing a Replacement Unit

If you are replacing a unit that is already in service, insure that the unit is the same as the unit being replaced.

Step	Action
1.	Remove the wiring connectors from the front and rear of the unit.
2.	Unscrew the front panel securing screw to release the unit from the shelf.
3.	Using the card ejector, remove the unit from the shelf.
4.	Follow the procedure for installing a new unit.

### Attaching the Rear Panel

Install the rear panel of the unit before the units are installed in the shelf and before wiring begins.

## Wiring the Unit

**Table 1. Pin Chart for Male 50-pin (25 pair) TELCO Connector**

Circuit	Pin	
1	Pin 1 = R	Pin 26 = T
	Pin 2 = R1	Pin 27 = T1
2	Pin 3 = R	Pin 28 = T
	Pin 4 = R1	Pin 29 = T1
3	Pin 5 = R	Pin 30 = T
	Pin 6 = R1	Pin 31 = T1
4	Pin 7 = R	Pin 32 = T
	Pin 8 = R1	Pin 33 = T1
5	Pin 9 = R	Pin 34 = T
	Pin 10 = R1	Pin 35 = T1
6	Pin 11 = R	Pin 36 = T
	Pin 12 = R1	Pin 37 = T1
7	Pin 13 = R	Pin 38 = T
	Pin 14 = R1	Pin 39 = T1
8	Pin 15 = R	Pin 40 = T
	Pin 16 = R1	Pin 41 = T1
9	Pin 17 = R	Pin 42 = T
	Pin 18 = R1	Pin 43 = T1
10	Pin 19 = R	Pin 44 = T
	Pin 20 = R1	Pin 45 = T1
11	Pin 21 = R	Pin 46 = T
	Pin 22 = R1	Pin 47 = T1
12	Pin 23 = R	Pin 48 = T
	Pin 24 = R1	Pin 49 = T1

## PROVISIONING

This unit comes from the factory with default provisioning, which can be changed through the control interface. When this unit is inserted in to a previously provisioned slot, if the card type matches, the unit will change its provisioning options to match the previously provisioned unit. If the unit type does not match the unit will assume its default provisioning. The provisioning options are as follows:

Option (per circuit)	Choices	Default
Data time slot used	T1=1-24, None  E1=1-15, 17-31, None	3632-80: channel number  3632-81: T1=None  E1=channel number
<i>Note: For 56 and 64 Kbps rates, if error correction is active, parity byte will be transmitted in next time slot</i>		
Data rate	2.4, 4.8, 9.6, 19.2, 56, SW56, 64	64
Zero code suppression	On, Off	Off
Alternate CMI	On, Off	Off
Latching loopback enable	On, Off	Off
DSU loopback from network, re-map to CSU (SW56 mode only)*	DSU, CSU	DSU
Active loopback*	Near-end, Far-end	Near-end
Test loopback to be transmitted *	OCU, CSU, DSU, Local, None	None
Test loopback to be transmitted with 2047 test pattern *	Disable, Enable	Disable
Test loopback test time *	Hour, Minute, Second	1 minute
* Available with the T1 Control Unit.		

## TECHNICAL ASSISTANCE

If technical assistance is required, contact Charles Industries' Technical Service Center at:

847-806-8500  
800-607-8500  
847-806-8556 (FAX)

techserv@charlesindustries.com (e-mail)