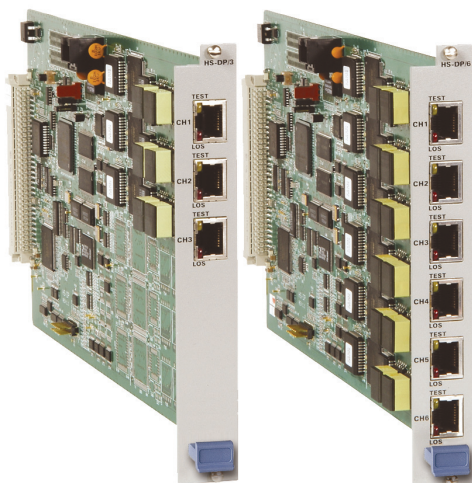


# Megaplex-2100/2104

# HS-DP/3, HS-DP/6

## 3/6-Channel OCU-DP Modules



- Compatible with AT&T PUB 62310 (Standard DDS), BELLCORE TA-TSY-000077, TR-TSY-000458
- Programmable data rates of 2.4, 4.8, 9.6 and 56 kbps per channel
- One timeslot per channel
- DS-0A compatible
- Separate RJ-45 (8-pin) connector for each channel

Three or six OCU-DP  
independently  
configurable channels

The HS-DP modules provide Megaplex-2100 and Megaplex-2104 with three or six OCU-DP (Office Channel Unit - Data Port) channels. Each channel can be configured independently.

The OCU-DP interface provides direct connection to products with a built-in CSU/DSU. It is also used with standalone CSU/DSU products for connection to DDS networks (see Applications).

Each OCU-DP channel is fully compatible with AT&T PUB 62310 (Standard DDS) and BELLCORE TA-TSY-0000777, and operates at data rates of 2.4, 4.8, 9.6 and 56 kbps. Channel data rates, as well as all operating parameters, are soft-selectable through the Megaplex-2100/2104 management system.

The user allocates to each OCU-DP channel one timeslot on the Megaplex E1/T1 link. Each channel operates in DS-0A full duplex, per BELLCORE TR-TSY-000458.

The channel output may be directed to any other channel on another HS-DP module at the remote site.

The transmit timing is locked to the Megaplex-2100/2104 nodal timing. Receive timing is recovered from the received signal locked externally to the transmit timing.

Diagnostic capabilities are per BELLCORE TA-TSY-000077 and include OCU loopback, CSU (channel) loopback and DSU loopback.

Integrated inband loop codes supported are OCU, CSU, and DSU.

Each channel terminates with a separate RJ-45 (8-pin) connector.



# HS-DP/3, HS-DP/6 3/6-Channel OCU-DP Modules

## Specifications

### Number of Data Channels

HS-DP/3: 3  
HS-DP/6: 6

### Timeslot Allocation

One timeslot per channel

### Interface

Compatible with AT&T PUB 62310  
(Standard DDS), BELLCORE TA-TSY-000077

### Connectors (per channel)

RJ-45 (8-pin)

### Data Rates

2.4, 4.8, 9.6 and 56 kbps

### Operating Mode

DS-0A, full duplex, per  
BELLCORE TR-TSY-000458

### Transmit Pair Timing (Rx-Out)

Locked to the Megaplex nodal timing

### Receive Pair Timing (Tx-In)

Clock recovered from the received signal  
locked externally to the transmit timing

### Input Level

#### (loss at half bit rate)

2.4 to 9.6 kbps: 0 to -40 dB  
56 kbps: 0 to -49 dB

### Zero Code Suppression

Per BELLCORE TA-TSY-0000777

### Code Recognition

From T1 network to customer:

OCU loopback

CSU loopback

DSU loopback

IDLE code

Out of service (OOS):

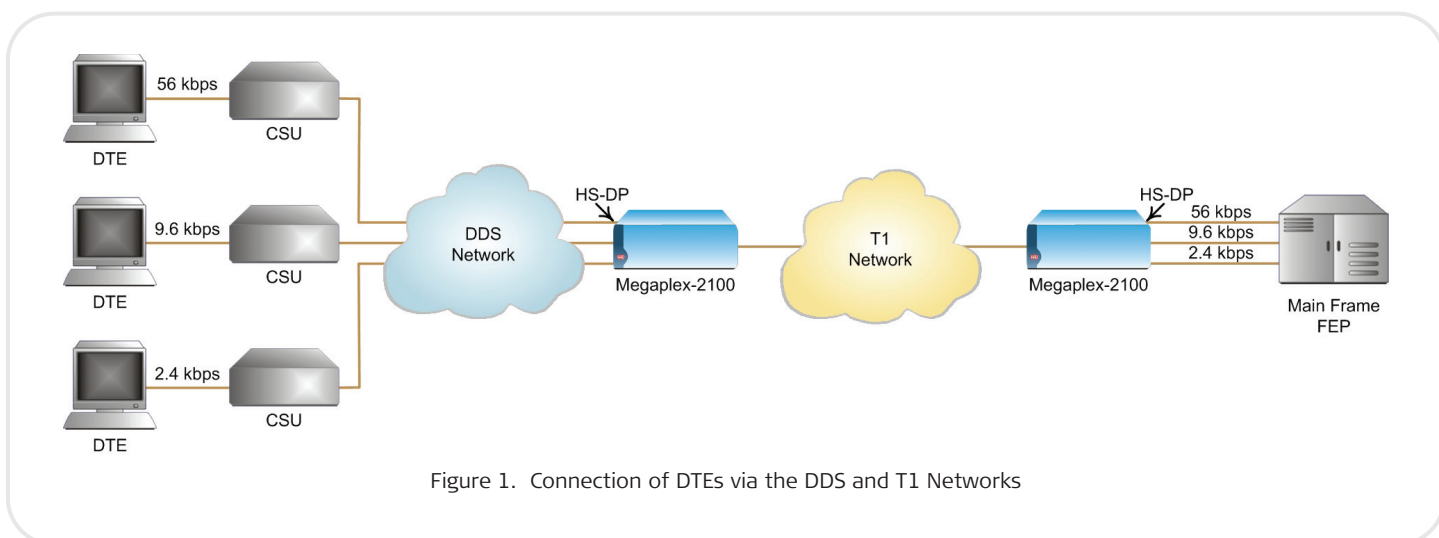
Abnormal station Mux out of sync

Unassigned mux channel

Test code

From customer to T1 network:

Abnormal station (loss of signal)



### Network Diagnostics Inband Code Recognition and Generation

OCU loopback  
 CSU (channel) loopback  
 DSU loopback

### Management Diagnostics

Local loopback  
 Remote loopback (OCU loopback)  
 Remote loopback on external unit (CSU loopback)

### Alarms (per channel)

Loss of signal  
 Out of service (OOS) condition

### Indicators (per channel)

Loss of signal (LOS)  
 Test (TEST)

### Configuration

Programmable via the Megaplex management system

### Environment

Operating temperature: 0°C to 45°C  
 (32°F to 113°F)  
 Storage temperature: -20°C to +70°C  
 (-4°F to +160°F)  
 Humidity: up to 95%, non-condensing

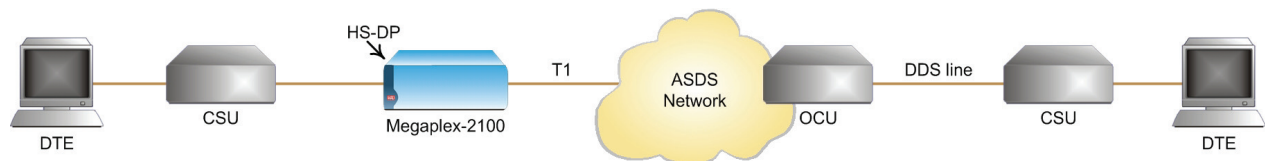


Figure 2. DTE to DTE Communication using Single-ended Multiplexing via the ASDS Network

## HS-DP/3, HS-DP/6

## 3/6-Channel OCU-DP Modules

## Ordering



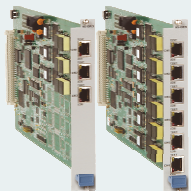
**MP-2100M-HS-DP/3**

3-channel OCU-DP data module for  
MP-2100/2104

**MP-2100M-HS-DP/6**

6-channel OCU-DP data module for  
MP-2100/2104

Table 1. Megaplex Low-Speed Modules

			
	<b>HS-RN</b>	<b>LS-6N, LS-12</b>	<b>HS-DP/3, HS-DP/6</b>
<b>Feature</b>			
Interface Type	V.24/RS-232	V.24/RS-232	OCU-DP
Number of Channels	4	6/12	3/6
Number of Connectors	2	1/2	3/6
Multiplexing Method	ITU-T I.460/V.110	Proprietary	BELLCORE TA-TSY-0000777
Data Rate	0.6 – 64 kbps	2.4 – 64 kbps	2.4 – 56 kbps
Supported by MP-4100	✓	✓	–

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