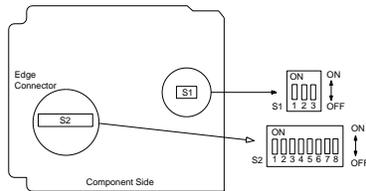




DDM-2000 OC-3/OC-12 Multiplexer Circuit Pack Options

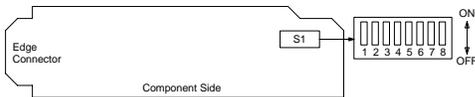
BBG8/BBG8B SYSCTL Option Switch Settings



Switch Settings:

1. Set switch **S1** sections to **OFF**.
2. Set switch **S2** sections **S2-1, S2-2, S2-3, S2-4, S2-5, S2-6, S2-7, and S2-8** to **OFF**.

BBF1/BBF1B DS1 & BBF3/BBF3B DS1PM Option Switch Settings



Notes:

1. Switches are set by moving slide to **ON** or **OFF**.
2. If switch setting is changed, the **UPD/INIT** button must be momentarily depressed.

Table A. DS1 Cable LBO Settings

| 613C (608C) Cable Length (feet) | 1249C Cable Cable Length (feet) | Other Cable dB Loss at 772 kHz | S1-1 | S1-2 | S1-3 |
|---------------------------------------|---------------------------------------|--------------------------------------|------|------|------|
| 0 to 133* | 0 to 90* | 0 to 0.6 | OFF | OFF | OFF |
| >133 to 267 | >90 to 180 | >0.6 to 1.2 | OFF | OFF | ON |
| >267 to 400 | >180 to 270 | >1.2 to 1.8 | OFF | ON | OFF |
| >400 to 533 | >270 to 360 | >1.8 to 2.4 | OFF | ON | ON |
| >533 to 655 | >360 to 450 | >2.4 to 2.8 | ON | OFF | OFF |

* Minimum of 30 feet required to meet EMI requirements.

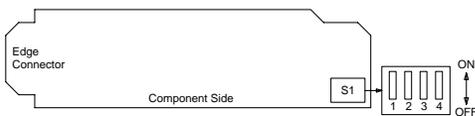
Table B. DS1 Line Code Settings (Note)

| Line Code Format | S1-4 (Port 1) | S1-5 (Port 2) | S1-6 (Port 3) | S1-7 (Port 4) |
|---------------------|------------------|------------------|------------------|------------------|
| B8ZS | OFF | OFF | OFF | OFF |
| AMI | ON | ON | ON | ON |

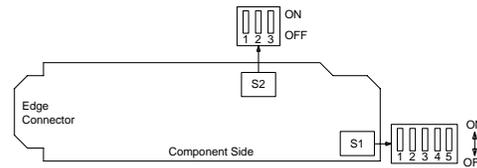
Notes:

1. Switch section **S1-8** is unused and ignored by the system.
2. Line code is software overrideable.

BBF2/BBF2B/BBF2C TGS/BBF4 TG3 Option Switch Settings



BBF2 TGS



BBF2B/BBF2C TGS/BBF4 TG3

Notes:

1. Switches are set by moving slide to **ON** or **OFF**.
2. Invalid setting lights **FAULT** LED and generates alarm.
3. If switch setting is changed, the **UPD/INIT** button must be momentarily depressed.
4. Timing mode switch settings must be the same on both **TGS/TG3** packs. Different settings light the **FAULT** LED on **TGS/TG3** in **TIMING** slot 2 and generate an alarm.

Table C. BBF2 TGS Timing Mode

| Timing Mode | S1-3 | S1-4 |
|-------------------------|------|------|
| Free Running | ON | ON |
| DS1 External, MULT Mode | OFF | ON |
| Line Timed (OC-3) | ON | OFF |
| Line Timed (OC-12) | OFF | OFF |
| Invalid (OC-3) | OFF | OFF |
| Invalid (OC-12) | ON | OFF |

Table D. BBF2B/BBF2C TGS/BBF4 TG3 Timing Mode

| Timing Mode | Switch S1 Settings | | | | | |
|-----------------------------|--------------------|------|-------|------|------|------|
| | OC-3 | | OC-12 | | | |
| | S1-3 | S1-4 | S1-5 | S1-3 | S1-4 | S1-5 |
| Free Running | ON | ON | OFF | ON | ON | OFF |
| DS1 External, MULT Mode | OFF | ON | OFF | OFF | ON | OFF |
| Line Timed, MAIN | ON | OFF | OFF | OFF | OFF | OFF |
| Line Timed, SYNC OUT Mode | ON | OFF | ON | OFF | OFF | ON |
| DS1 External, SYNC OUT Mode | ON | ON | ON | OFF | ON | ON |
| Invalid | OFF | OFF | ON | ON | OFF | ON |
| Invalid | OFF | OFF | OFF | ON | OFF | OFF |
| Invalid | OFF | ON | ON | ON | ON | ON |

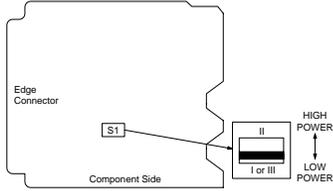
Table E. BBF2B/BBF2C TGS/BBF4 TG3 Equalizer Switch

| Equalization | S2-1 | S2-2 | S2-3 |
|---------------|------|------|------|
| 0' to 131' | ON | ON | OFF |
| >131' to 262' | ON | OFF | ON |
| >262' to 393' | ON | OFF | OFF |
| >393' to 524' | OFF | ON | ON |
| >524' to 655' | OFF | ON | OFF |
| Invalid | OFF | OFF | OFF |
| Invalid | OFF | OFF | ON |
| Invalid | ON | ON | ON |

Table F. BBF2/BBF2B/BBF2C TGS/BBF4 TG3 Line Code and Frame Format

| DS1 Line Code | S1-1 | DS1 Frame Format | S1-2 |
|------------------|------|---------------------|------|
| AMI | ON | SF | ON |
| B8ZS | OFF | ESF | OFF |

21G/21G-U OLIU Option Switch Settings



- Notes:**
1. Switch is set by moving slide to **HIGH** or **LOW**.
 2. If switch setting is changed, the **UPD/INIT** button must be momentarily depressed.

Table G. OLIU Option Switch

| Facility Loss | Transmitter Switch |
|----------------|--------------------|
| 0 - 6 dB | LOW Power |
| More than 6 dB | HIGH Power |

BBG12 3STS1E (EC-1) LBO Settings

BBG12 3STS1E

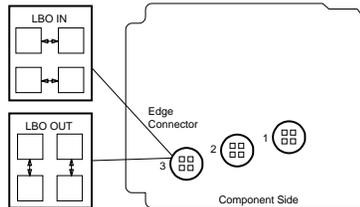
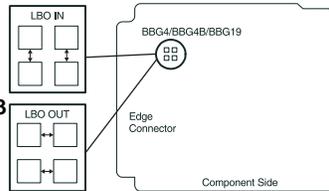


Table H. BBG12 3STS1E LBO Settings

| Cable Length (Ft) | | | | LBO Setting |
|-------------------|--------------------|-------------|--|-------------|
| 734A Cable | Mini-Coax KS-19224 | 735A Cable | | |
| 0 to 225 | 0 to 75 | 0 to 125 | | LBO IN |
| >225 to 450 | >75 to 150 | >125 to 250 | | LBO OUT |

BBG4/BBG4B/BBG19 DS3 & BBG11/BBG11B 3DS3 LBO Settings

BBG4/BBG4B/BBG19 DS3



BBG11/BBG11B 3DS3

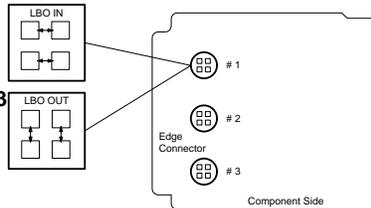
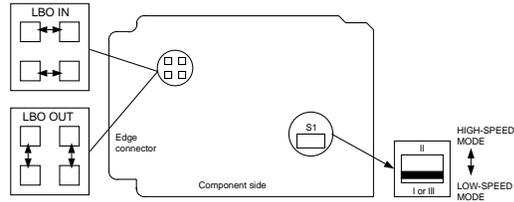


Table I. DS3 LBO Settings

| Cable Length (Ft) | | | | LBO Setting |
|-------------------|--------------------|-------------|--|-------------|
| 734A Cable | Mini-Coax KS-19224 | 735A Cable | | |
| 0 to 225 | 0 to 75 | 0 to 125 | | LBO IN |
| >225 to 450 | >75 to 150 | >125 to 250 | | LBO OUT |

BBG6 STS1E (EC-1) LBO & Option Switch Settings



Note: Switch S1 is set to **HIGH-SPEED MODE** or **LOW-SPEED MODE**.

Table J. BBG6 STS1E LBO Settings

| Cable Length (Ft) | | | | LBO Setting |
|-------------------|--------------------|-------------|--|-------------|
| 734A Cable | Mini-Coax KS-19224 | 735A Cable | | |
| 0 to 225 | 0 to 75 | 0 to 125 | | LBO IN |
| >225 to 450 | >75 to 150 | >125 to 250 | | LBO OUT |

BBG20 TMUX LBO Settings

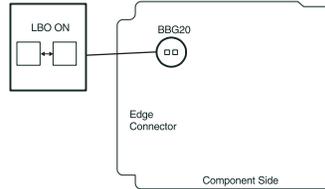


Table K. BBG20 TMUX LBO Settings

| Cable Length (Ft) | | | | LBO Setting |
|-------------------|--------------------|-------------|--|-------------|
| 734A Cable | Mini-Coax KS-19224 | 735A Cable | | |
| 0 to 225 | 0 to 75 | 0 to 125 | | LBO IN |
| >225 to 450 | >75 to 150 | >125 to 250 | | LBO OUT |

BBF8 HDSL Control Switch Settings



Table L. BBF8 HDSL Control Switch Settings

| Control Settings | Switch S1 Settings | | | |
|------------------|--------------------|------|------|------|
| | S1-1 | S1-2 | S1-3 | S1-4 |
| Master | — | OFF | — | OFF |
| Slave | — | ON | — | ON |
| Local | OFF | — | OFF | — |
| Remote | ON | — | ON | — |

Table M. Fan Shelf Switch Settings (Note)

| System | S1 | S2 | S3 | S4 |
|----------------|----|-----|----|----|
| DDM-2000 OC-3 | ON | OFF | ON | ON |
| DDM-2000 OC-12 | ON | OFF | ON | ON |

Note: Switch is set by depressing rocker switch to **ON** or **OFF**.

BBF6 T1EXT Option Switch Settings



Notes:

1. Switches are set by moving slide to **ON** or **OFF**.
2. If switch setting is changed, the **UPD/INIT** button must be momentarily depressed.

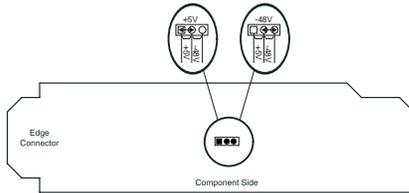
Table N. T1 Line Code Settings (Notes)

| Line Code Format | Switch S1 Settings | | | | |
|------------------|--------------------|---------------|---------------|---------------|---------------|
| | S1-1 (Port 1) | S1-2 (Port 2) | S1-3 (Unused) | S1-4 (Unused) | S1-5 (Unused) |
| B8ZS | OFF | OFF | OFF | OFF | OFF |
| AMI | ON | ON | OFF | OFF | OFF |

Notes:

1. Switch sections **S1-3**, **S1-4**, and **S1-5** are unused and ignored by the system.
2. Line code is software overrideable.

BBF9/BBF10 IMA LAN Power Settings



Note: Power settings are set by moving the jumper plug.

Table O. IMA LAN Power Settings

| Corresponding FUNCTION UNITS MXRVO Circuit Pack | IMA Power Setting | |
|--|-------------------|------|
| | +5V | -48V |
| BBG2 MXRVO | X | |
| BBG2B MXRVO | | X |