COHERENT
Service Department

FIELD SERVICE BULLETIN

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Release of Chameleon Software Version 7.94

PRODUCT   All 80 MHz Chameleon Series Lasers (Ultra, Ultra II, and XR-80)

PURPOSE   To inform Field Service Engineers, Representatives, and Coherent
Subsidiaries of the release of Chameleon software version 7.94.

DESCRIPTION

A redesign of the EEPROM on the Chameleon Head Board by the manufacturer caused a
conflict with the Chameleon software and would not allow the component to initialize
properly. Chameleon software version 7.94 is being released to correct incompatibility.

ACTION

Current Upgrade Recommendation

A Chameleon software upgrade from version 7.93 to 7.94 is "As Required".

Chameleon systems with software version 7.92, or older, must still be upgraded along with
the Verdi software (minimum 9.53) to correct system reliability issues identified in FSB 506.

Reference:
        FSB 506, Release of Chameleon Software Version 7.93, dated 05/09/2007.
        FSB 498, Release of Chameleon Software Version 7.92, dated 01/03/2007.
        FSB 493, Release of Chameleon Software Version 7.91, dated 11/06/2006.

Any previous version of software for the 80 MHz Chameleon can be upgraded to the new
version, 7.94.

Upgrade Procedure

Follow the software upgrade procedure as outlined in SVC-CHAM-5.4 Rev A (or later) using the Bootloader PC program to upload the new Chameleon software to the Chameleon Head and Verdi Interface boards using RS-232. Use Chameleon PC version 1.14 (or later) to view, save, or restore, the EEPROM contents. Older versions of Chameleon PC are unable to read the EEPROM data structure supported by Chameleon software version 7.91 and later.

To upgrade the software, first save a copy of the Verdi and Chameleon EEPROM contents. If not already performed, upgrade the Verdi software to a minimum version of 9.53, and verify that the Verdi operates correctly before proceeding with the Chameleon software upgrade.

Older 80 MHz Chameleon systems may have a cable connecting J1 (Ext Reset) on the Chameleon Head Board to J112 (Aux) on the Verdi Pump Board. Remove this cable. If the cable is not removed, it is possible that the Verdi software will cause a reset to the Chameleon Head Board resulting in a Chameleon Head Comm Fault, Fault #54.

After the software upgrade, the Chameleon EEPROM data file should be verified using the Chameleon PC program, and reloaded only if necessary.

Please note that FSB 495 (Field Upgrade of Chameleon Software) supercedes the use of the JTAG wiggler cable by allowing software download using RS-232. Also, that it is essential to have preprogrammed Chameleon Head and Verdi Interface Boards readily available; the required boards are listed below.

The following files are required for this upgrade:

Head_v7_94.s
Interface_v7_94.s

The following files are distributed with this FSB:

Head_v7_94.zip
Interface_v7_94.zip

PARTS   The following PCBAs are supplied preprogrammed with the most recent software version.

1117719   FRU, PCBA, Head Board, Chameleon Ultra (RoHS), Rev AB
1117724   FRU, TESTED, Verdi Interface Board, Chameleon Ultra (RoHS), Rev AB

1136058   Programmed EPROM, Verdi 9.53

PSE   Doug Hey