

B86900-01

Evolution Module

Release Notes

Document version: 1.01

Release Date: January 12th, 2021

Type of Release: Production Release 2.00b

Lentronics Multiplexers

For SONET Multiplexers



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RELEASE SUMMARY

PRODUCT/COMPONENT

- B86900-01 Evolution Module
- Board Issue: 2
- Firmware Issue 2.00b
 - Flash Version 2.00b
 - FPGA Version 1.13
- Serial Number 05-62-1204

- Checksum 499D60B5

REQUIREMENTS

- VistaNET version 5.12.17128 is a required software component for unit setup and circuit provisioning. VistaNET can be downloaded from GE's website <http://www.gegridsolutions.com/communications/Multiplexers.asp>.
- GE recommends patching 5.12.17128 to include the latches bug fixes and new functionality. Patches must always apply to the most recent release build available to customers. In order to install the patch, the customer must first install the release that it applies to (e.g. a 5.10 patch cannot be installed on 5.08). If multiple patches are made between two releases, the latest patches will include all of the changes from the patches before it.

DOCUMENTATION CONTROL

Version 1.00	Production Release	April 30 th , 2020
Version 1.01	Production Release	January 12 th , 2021



RELEASE DETAILS

NEW FEATURES

GE's firmware release version 1.03 (April 2020) of a new Evolution Module (B86900-01) has been updated to firmware version 2.00b for use with JungleMUX SONET Multiplexers. This unit provides optical connectivity at 1.25Gb/s between JungleMUX nodes and GE's JunglePAX platform, to provide simple migration of traffic across mixed Hybrid JMUX & JPAX networks. The Evolution Module occupies a single shelf slot and is positioned within the JungleMUX Common or Expansion chassis, connecting to OC-3, OC-12 or OC-48 units via Configurable Bandwidth Ports. A single Optical SFP connect is used to establish connectivity to a JPAX 1G+ Hybrid Port. Redundant Evolution Modules may be connected at Single or Dual-Homed JMUX nodes to eliminate single points of weakness. This unit is now shipping with release 2.00b firmware supporting the following features

- 2* CBW ports, each able to pass 28* VT 1.5s over the fiber optic link
- 1 * SFP cage supporting a standard 1.25Gb/s SFP
 - SFP is ordered separately based on desired optical budget
- 2 * RJ-45 ports for future firmware update supporting 1G Ethernet over the same fiber
- VistaNET managed
- SSM forwarding from JMUX to JPAX is supported

Firmware release version 2.00b fixes a bug (JIRA #2718) related to fluctuating VT-AIS/OK indications on the Evolution Modules CBW interface.

Refer to page 2 of this document for an example of how to position Evolution Modules within the JungleMUX node and illustrating the optical connectivity to JunglePAX.

ENGINEERING RULES

VistaNET version 5.12.17128 or newer is required to manage this unit.

LIMITATIONS

This module currently supports VT1.5's only.

FIRMWARE UPGRADE PROCEDURE

Contact GE's customer support group for access to this firmware file and upgrade instructions. 'In the field Firmware upgrades for this unit requires local unit access.

CONTACTS

For additional details or technical assistance, you may contact:

Customer Technical Service

Burnaby, BC, Canada, Phone: 1-604-421-8610

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