7707OO–2–OC, 7707OO–2L–OC
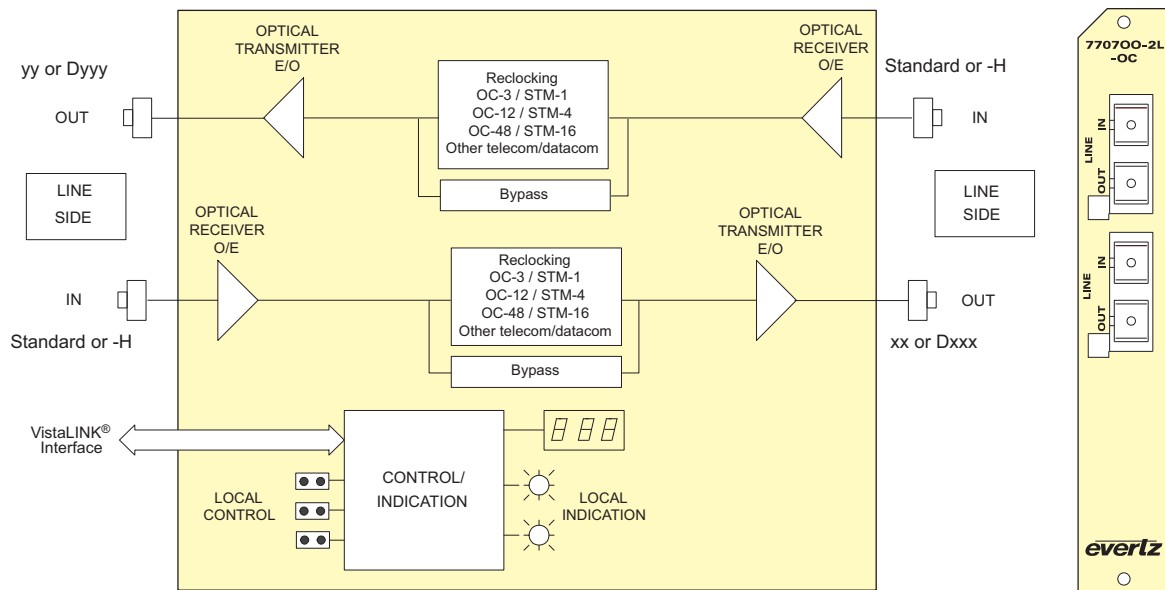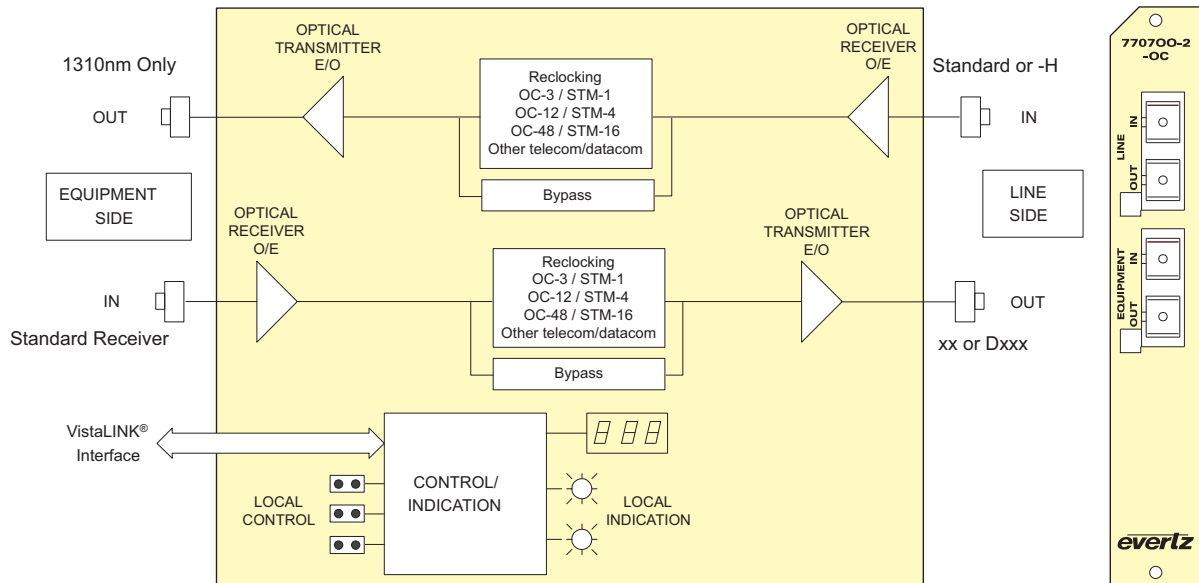## *Optical to Optical Wavelength Shifter/Regenerator*

The 7707OO–2–OC and 7707OO–2L–OC are VistaLINK®–capable, optical to optical wavelength shifter/regenerator for telecom and datacom signals. Monitoring and control of card status and parameters is provided locally at the card edge and remotely via VistaLINK®.

The 7707OO–2–OC and 7707OO–2L–OC accepts two fiber inputs and provides two optical outputs. All versions accept 1270nm to 1610nm optical input signals on multi–mode or single–mode fiber. The 7707OO–2–OC and 7707OO–2L–OC are available in 1310nm, CWDM and DWDM configurations.

▶**Features & Benefits**

• Reclocking for OC–3/STM–1, OC–12/STM–4 and OC–48/STM–16 and a number of other telecom and datacom rates (see specifications)
• Non–reclocking mode for support of additional signal rates (125Mb/s–3.187Gb/s)
• Full–Duplex
• Wide range optical input (1270nm–1610nm)
• 1310nm, 1550nm and CWDM wavelengths available for optical outputs
• DWDM wavelengths (ITU–T G.694.1 compliant) also available for optical outputs

• Comprehensive signal and card status monitoring via four digit card edge display or remotely through SNMP and VistaLINK®
• Detection and display of optical input power and data rate
• Fully hot–swappable from front of frame
• VistaLINK® capability is available when modules are used with the 3RU 7800FR or a 350FR frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame

▶Specifications

Standards (reclocked):

Datacom	
Standard	**Data Rate**
Fiber Channel	2.125Gb/s
Fiber Channel	1.062Gb/s
Fiber Channel	531Mb/s
Fiber Channel	266Mb/s
Fiber Channel	133Mb/s
Fast Ethernet	125Mb/s
XAUI	3.125Gb/s
XAUI	3.187Gb/s
ESCON	200Mb/s

Optical Inputs:
Number of Inputs: 2
Rates (non–reclocked):
 125Mb/s–3.187Gb/s
Connector: Female SC/PC, ST/PC, FC/PC, SC/APC
Wavelength: 1270nm–1610nm

Optical Sensitivity
 Standard & Equipment Side:
 –27dBm
 High Sensitivity (–H):–29dBm
Max. Input Power:
 Standard & Equipment Side:
 –1dBm
 High Sensitivity (–H):–7dBm
Fiber Size: 62µm core / 125µm overall

Optical Outputs:
Standards: Same as optical input
Number of Outputs: 2
Connector: SC/PC, ST/PC, FC/PC, SC/APC female housing
Return Loss: < 14dB
Fiber Size: 9µm core / 125µm overall
Equipment Side:
 Wavelengths Standard: 1310nm
 Output Power 1310nm FP:
 –7dBm ± 1dBm

Line Side Wavelengths:
Standard: 1310nm, 1550nm (nominal)
CWDM: 1270nm to 1610nm (See ordering information)
DWDM: C–Band/L–Band (ITU–T G.694.1 compliant)

Output Power:
1310nm FP: –6dBm ± 1dBm
CWDM: ±1dBm ± 1dBm
DWDM: +7dBm ± 1dBm

Electrical:
Voltage: +12V DC
Power: 6W (Non DWDM)
 9W (DWDM)
EMI/RFI: Complies with FCC regulations for Class A devices
 Complies with EU EMC directive

Physical (number of slots):
350FR: 1
7700FR–C: 1
7800FR: 1

Compliance:
Laser Safety: Class 1 laser product
 Complies with 24 CFR 1040.10 and 1040.11
 IEC 60825–1
EMI/RFI: Complies with FCC Part 15, Class A EU EMC directive

▶Ordering Information

7707OO13–2–OC 1310nm FP laser and standard receiver (line side), VistaLINK®
7707OO15–2–OC 1550nm DFB laser and standard receiver (line side),VistaLINK®
7707OO15–2L–OC 1550nm FP laser, dual line, VistaLINK®

For CWDM applications please refer to the end of the fiber section for details
7707OOxx–2–OC CWDM DFB laser and standard receiver (line side), VistaLINK®
7707OOxx/yy–2L–OC
 CWDM DFB laser, dual line, standard receiver, VistaLINK®
7707OOxx–2–OC–H CWDM DFB laser, high sensitivity receiver (line side), VistaLINK®
7707OOxx/yy–2L–OC–H
 CWDM DFB laser, high sensitivity receiver, VistaLINK®

For DWDM applications please refer to the end of the fiber section for details
7707OODxxx–2–OC DWDM DFB laser and standard receiver (line side), VistaLINK®
7707OODxxx/Dyyy–2L–OC
 DWDM laser, dual line, standard receiver, VistaLINK
7707OODxxx–2–OC–H
 DWDM DFB laser, high sensitivity receiver (line side),VistaLINK®
7707OODxxx/Dyyy–2L–OC–H
 DWDM laser, high sensitivity receiver, VistaLINK®

*Note: Contact factory for clarification on laser ordering options

Ordering Options Rear Plate and Fiber Connector must be specified at time of order (Eg: Model +SC +3RU)

Connector Suffix
+SC SC/PC
+ST ST/PC

Rear Plate Suffix
+3RU 3RU Rear Plate for use with 350FR, 7700FR–C or 7800FR Multiframe
+1RU 1RU Rear Plate for use with 7701FR Multiframe
+SA Standalone Enclosure Rear Plate

Enclosures
350FR 3RU Portable Multiframe which holds up to 7 single slot modules
7700FR–C 3RU Multiframe which holds up to 15 single slot modules
7800FR 3RU Multiframe which holds up to 15 single slot modules
7801FR 1RU Multiframe which holds up to 4 single or 2 dual slot modules
7701FR 1RU Multiframe which holds up to 3 single or dual slot modules
S7701FR Standalone Enclosure