Abstract: The present invention provides a small form factor, pluggable ONU, which includes a bi-directional optical transceiver configured to transmit optical signals to and receive optical signals from an OLT. The ONU further includes an ONU chip coupled to the optical transceiver and configured to communicate with the OLT. Also included is a pluggable interface configured to electrically interface between the ONU chip and a piece of subscriber premise equipment (SPE). The ONU includes a power management module to provide power to the ONU chip and the optical transceiver, using power delivered from the SPE through the pluggable interface. The ONU is enclosed in a small form factor enclosure, thereby allowing the pluggable ONU to be directly plugged into the SPE and providing an Ethernet Passive Optical Network (EPON) uplink to the SPE without requiring an separate power supply.
INTERNATIONAL SEARCH REPORT

PCT/US2006/Q48818

A CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04J 14/00 (2008.04)
USPC - 398/72

According to International Patent Classification (IPC) or to both national classification and IPC.

B FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - H04J 14/00 (2008.04)
USPC - 398/72

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched.

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MicroPatent

C DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
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D Further documents are listed in the continuation of Box C

E Document cited documents

D Document containing data consulted during the examination of the application

Date of the actual completion of the international search
12 September 2008

Date of mailing of the international search report
24 SEP 2008

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PCT/ISA/2 10 (second sheet) (April 2008)