

**The IPS 3000 is a flexible and robust platform for managing optical modules**

#### Features

- Central management of optical networking modules
- Compact: Supports 12 peripheral modules in a single 6 rack unit (RU) chassis
- Power consumption: 100W max
- ETSI 300 (12") depth form factor
- Integral fiber management

#### Easy to Install, Program and Use

- Hot-swappable Peripheral Modules can be mixed and matched as needed
- SNMPv3 for control and management
- Command-Line Interface (TL1) for control and management
- ClickManage - a built-in user-friendly web GUI
- Alarm management
- Inventory reporting
- SSL encrypted access

#### Outstanding Reliability and Performance

- Dual -48V DC or redundant, hot-swappable AC power
- Hot-swappable modules
- Hot-swappable fan tray
- Front to back airflow
- Alarm contacts

#### Control and Monitoring for All Modules

- Alarm triggers and configurable optical power thresholds
- Constant gain and output power modes for amplifiers

#### Compliances

- FCC Part 15 Class A, UL 60950-1, CSA, CE, RoHS 6/6



IPS 3000



Peripheral Module

#### Centralized Optical Peripheral Management

The Glimmerglass Intelligent Peripheral System 3000 (IPS 3000) is a carrier-grade platform that provides centralized management of various optical networking modules. The 6RU shelf offers tremendous service density while providing system flexibility. Up to 12 Peripheral Modules may be mixed and matched in a single chassis as required. The IPS 3000 can be controlled via SNMPv3, Command-Line Interface (TL1), or the built-in ClickManage GUI.

In addition to operating as a standalone system, the IPS 3000 can be combined with Glimmerglass Intelligent Optical Systems to form a flexible optical signal management solution. Together, the systems are key enablers of the Glimmerglass CyberSweep™. Their unique capabilities enable the dynamic selection and distribution of optical signals for analysis and storage.

#### Flexible

The IPS 3000 supports a variety of hot-swappable modules that can be mixed and matched to address a broad range of networking needs.

- **Dual Optical Power Amplifier Modules** contain two independent EDFAs per module. A Dual Optical Power Amplifier Module occupies one slot in the chassis, allowing up to 24 amplifiers in a single 6RU IPS 3000.
- **Lossless Splitter Modules** combine a single 1:N ( $N \leq 12$ ) optical splitter with an associated optical amplifier to compensate for loss. Each Lossless Splitter Module occupies one slot in the chassis, allowing up to 12 lossless splitters in a single 6RU IPS 3000.
- **High Density Splitter Modules** provide the highest splitter density in the industry. High Density Splitter Modules come in various configurations from twelve 1:2 splitters to a single 1:16 splitter on a one slot card. With 12 High Density Splitter Modules, the IPS 3000 can support up to 144 1:2 splitters or 12 1:16 splitters in a single 6RU chassis.

# INTELLIGENT PERIPHERAL SYSTEM 3000

## PRODUCT FAMILY OVERVIEW

### IPS 3000 Chassis and System Control Module (SCM)

The Intelligent Peripheral System 3000 chassis comes standard with a System Control Module (SCM). Together they provide management, monitoring, power, and cooling for all IPS 3000 peripheral modules:

#### System Control Module Features

- Access via SNMPv3, Command-Line Interface (TL1), or ClickManage GUI
- Configuration and control of peripheral modules
- System configuration and management
- System maintenance operations
- User session administration

#### Chassis Features

- Telecom grade alarms with dry contact relays
- Hot-swappable fan tray
- Front access
- Front to back airflow
- RoHS 6/6

#### Compliances

FCC Part 15 Class A, UL 60950-1, CSA, CE, RoHS 6/6

#### Physical Dimensions

Chassis Dimensions: Height x Width x Depth	inch: 10.5 x 19 x 11.8 mm: 266.5 x 483 x 300
User Slots	12 Peripheral Modules
Weight Max: lbs / kgs	55.0 / 25.0

#### Electrical Specifications

Supply Voltage	Dual -48V DC (Redundant AC optional)
Power Max	< 100W Fully Loaded

#### Environmental Specifications

Operating Temperature	5°C to 50°C
Storage Temperature	-40°C to 85°C
Relative Humidity	5% to 95% non-condensing
Control/Craft Protocol	TL1, SNMPv3, HTML

### IPS 3000 Peripheral Modules<sup>1</sup>

The IPS 3000 allows up to twelve peripheral modules to be mixed and matched in a single chassis. Available modules include:

#### Dual Optical Power Amplifier (DOPA) Module

The IPS 3000 DOPA module contains two independent EDFAs (1530 - 1560 nm). Each module occupies one slot in the IPS 3000 chassis, allowing up to 24 amplifiers to be supported in 6RU.

- Constant Gain and Constant Output Power mode
- Hot-swappable
- Pre-amp configurations
  - Input power : -30dBm to -6dBm, Gain:10dB to 25dB
- Booster amp configurations
  - Input power : -15dBm to 5dBm, Gain:5dB to 15dB

#### Lossless Splitter (LSSP) Module

The IPS 3000 LSSP module combines a single 1:N (N≤12) optical splitter with an associated EDFA (1530 - 1560 nm) to compensate for loss. Each module occupies one slot in the IPS 3000 chassis, allowing up to 12 lossless splitters to be supported in 6RU.

- Optical splits available from 1:2 to 1:12
- Constant Gain and Constant Output Power modes
- 90/10 and 80/20 split ratios available
- Hot-swappable

#### High Density Splitter (HDSP) Module

The IPS 3000 HDSP modules provide the highest splitter density in the industry. Six configurations are available, each occupying one slot in the IPS 3000 chassis. The IPS 3000 can fit up to 144 1:2 splitters in 6RU.

- High Density: twelve 1:2 splitters in a one-slot card
- Hot-swappable
- Optical splits available from 1:2 to 1:16
- 90/10 and 80/20 split ratios available



DOPA



LSSP



HDSP

<sup>1</sup> For complete specification see individual Module Data Sheets.

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