

Product Bulletin



S-Series

19-inch rack Erbium-Doped
Fiber Amplifier

S-1000 CATV EDFA

The S-1000 CATV EDFA is designed specifically for network operators to enhance their service network and enabling wide bandwidth applications (WBA) services to their customers. It allows the CATV operators to decide the number of amplified channel and manage the power budget of their network. This 19-inch rack model is available for standard and extended C-band region. It can be controlled either by LED indicators or LCD panel that displays the present status of the EDFA.

The S-1000 comes with software-assisted controls that enables it to operate at three different operating modes - **APC** (Automatic Power Control), **ACC** (Automatic Current Control) and **AGC** (Automatic Gain Control). These modes will be customized to user requirement. This model can be monitored remotely via RS232 or integrated to any available NMS. The Telcordia™ GR-1312CORE standards-compatible S-1000 comes with built-in sophisticated control electronics and monitoring outputs that could be easily integrated to any compatible telecom interfaces. Additional gain flattening feature is offered as optional.

Our technology is a patented optical design with minimum loss and optimum amplification performance. The software and control electronics has been designed for extremely precise monitoring and controlling of devices. It is designed to work in various network platforms.

Contact us for higher power and customized requirements.

Features

- Standalone design
- Amplification for C-band
- Extended C-band optional (30nm extra bandwidth)
- Transparent to wavelength add/drop
- Low noise figure
- Large view LCD panel
- Microcontroller controlled
- Configurable constant output power
- Optional automatic gain control (AGC) features
- Integrated alarm system
- User-friendly monitoring via RS232 or TTL

Applications

- CATV
- HFC networks
- Narrowband applications

Technical Specifications S-1000 CATV EDFA

Optical Characteristics

| Parameter | Typical Value | Unit |
|------------------------------|---------------------------------|----------|
| Operating Region | C-band | - |
| Wavelength Range | 1540 to 1560 or 1520 to 1570 | nm nm |
| Output Power Level | 8 to 14 | dBm |
| Input Power Level | -15 to 4 | dBm |
| Noise Figure | <6.0 | dB |
| PDG | <0.5 | dB |
| Gain Flatness | <0.5 | dB |
| Return Loss (input & output) | >40 | dB |

Electrical Characteristics

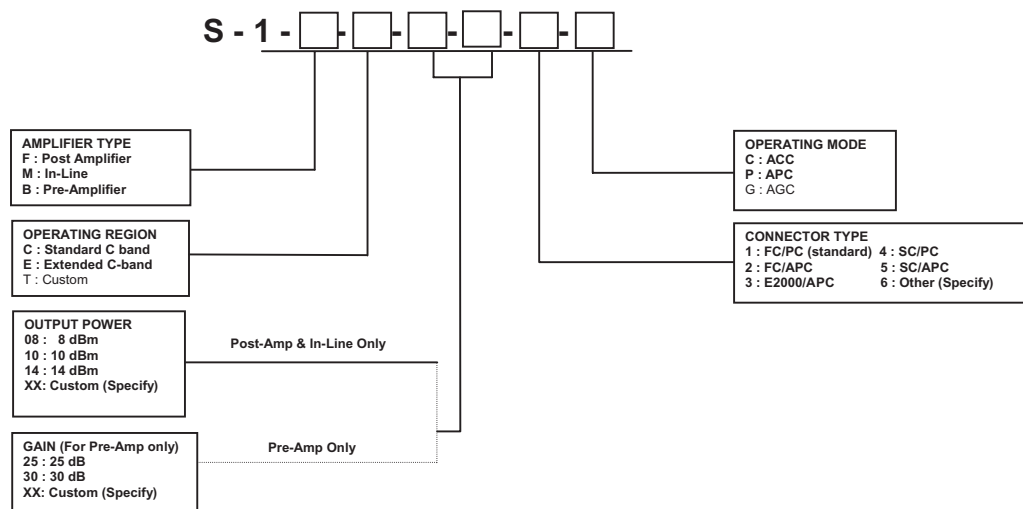
| Parameter | Typical Value | Unit |
|-------------------------|-------------------|------------|
| Operating Voltage | 100 to 240 -48 | VAC VDC |
| Power Consumption | 5.0 | W |
| Pump drive current | 200 | mA/pump |
| Communication Interface | RS232 and TTL | - |

Mechanical & Environmental Characteristics

| Parameter | Typical Value | Unit |
|---------------------------|--------------------|------|
| Dimension (W x L x H) | 483.6 x 350 x 44.5 | mm |
| Fiber Termination Type | FC, SC, ST, E-2000 | - |
| Polishing Type | PC/APC | - |
| Operating Temperature | 0 to 50 | °C |
| Storage Temperature | -20 to 65 | °C |
| Humidity (non condensing) | 0 to 85 | % |
| Weight | 8.0 | kg |

Ordering Information

S-1000 CATV EDFA Product Code



Notes:

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