

CTX Series

EDFA CTX6600-WV**Optical Fiber Amplifier for WDM****Main Features**

- Protocol Transparent
- Gain Flattened for WDM
- Gain Variable
- Output Tilt Controlled
- C or L Band
- Variable Mid-stage Loss
- Supervisory Channel Add/Drop
- Input and Output Monitoring Taps
- Automatic Shutdown
- Transient Suppressed
- Plug and play system
- OEM modules

Description

CTX6600I-WV is a low cost, ultra-compact and flexible optical amplifier with or without mid-stage access, which integrates high power pump lasers, variable attenuators, provides the same reliable amplification as our previous products while adding unprecedented flexibility in gain control, tilt control and dispersion compensator control, allowing the same module to be used in different transmission systems. Intelligence and versatility are the main features of CTX6600I-WV. User can set different gain without suffering from gain tilt; can also automatically obtain best performance while combining CTX6600I-WV with DCM and Raman amplifiers.

Application Example: Most of applications for WDM is point-to-point amplification. Distance can go as much as 300 km without mid-span repeater. Below diagram shows how optical amplifier is used for DWDM transmission system and boosting transmission distance.



Figure 1: CTX6600I-WV

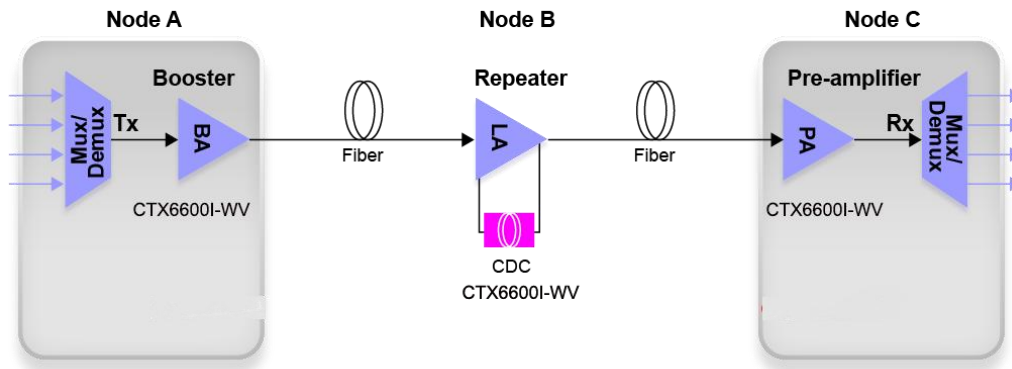
Benefits

- SFP VOA Optional
- Configurable as C or L band EDFA
- Built-in standard based network management, SNMPv.2 Agent, iCEO B/S Web GUI
- Input and Output Monitoring Tap
- Remote flash software update
- Low cost and ultra-compact 1U rack mount unit

Applications

- In-line or terminal high power amplification
- Broadband WDM amplification for C or L band
- DCM compensation through mid-stage access
- Optical Add/Drop node pre- and post-amplifier
- High power requirement up to 23

CTX6600I-WV application block diagram



Technical Specifications(System only)

Common Features	
Wavelength Range	C band: 1528 to 1565 nm L band: 1570 nm to 1608 nm
Maximum Output Power	20dBm min
Input range	-29 ~ 7dBm
Variable Gain Range	13 ~ 33dB
Flat Gain Range (to be specified)	10 ~ 15dB
Gain Flatness	± 0.5 ~ ±1dB or custom
Signal-spontaneous Noise Figure	5 ~ 6dB
Optical Return Loss (at All Ports)	30 dB min.
Polarization Mode Dispersion	0.3 ps typ. 0.5 ps max.
Polarization Dependent Gain	±0.2 dB typ. ±0.5 dB max.
Signal Input & Output Detection	25 min ~ 30dB typ.
Dynamic Range	
Signal Detection Accuracy (Within the Range)	± 0.3 min ~ ±1dB typ.
Available control	Constant Gain, Constant Power, Automatic Shutdown
Eye safety	Supported
Transient Over-shoot	0.5 typ.~ 1.0 dB Max
Transient Settling Time	1.0ms
Management	
Remote Access	SNMP, iCEO B/S Web GUI
Local Craft	CLI via RS232
Environmental	
Operating Temperature	-5 to 55 °C
Operating Humidity	5 to 95% (non-condensing)
Storage Temperature	-20 to + 85 °C
Mechanics	
Rack Mount Unit	19" 1U
Dimensions (H x W x D)	44 x 437 x 440 mm
Power	
Power Supply	-48 VDC, or 100/240VAC
Power Consumption	<150W

NOTES:

- 1) Customer specified output power shall be less or equal than above specification.
- 2) Optimum gain is where the user achieves the best gain flatness.
- 3) Transient performance is specified for 0.1 ms add/drop speed.

The specifications and information within this document are subject to change without further notice. All statements, information and recommendations are believed to be accurate but are presented without warranty of any kind. Contact Danriver for more details.
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