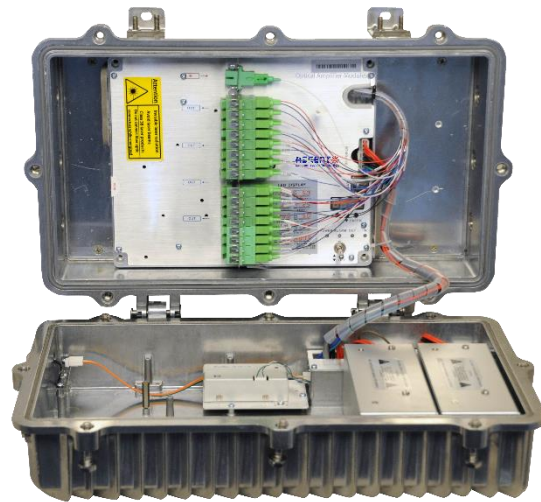


## Outdoor Er-Yb Multiport Optical Fiber Amplifier

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### ROE1200C Series



- **Weatherproof die cast aluminum alloy housing**
- **Video overlay for FTTx Applications**
- **Low noise, high performance**
- **Multi-ports output, can be built in 1310/1490/1550 WDM**
- **Adjustable output**
- **LED display**
- **SNMP Management**

Ascent's ROE1200C Outdoor Multiport EDFA offers flexible and scalable optical amplification for high quality optical transmission in RFoG/FTTH networks.

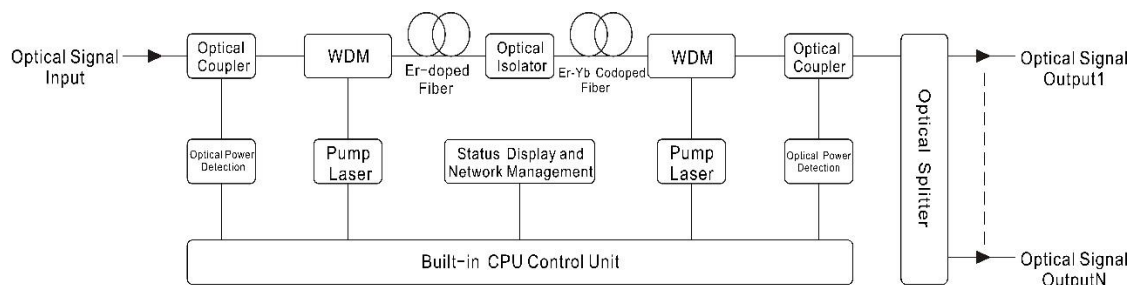
The ROE1200C series are outdoor Er-Yb codoped optical fiber amplifiers, with high stability and constant output. The core devices adopt high reliable Pump lasers and are equipped with APC and ATC servo circuits controlled by high precise MCU for real-time monitoring of bias current, TEC cooler bias current and laser temperature to ensure the stable output optical power and the reliable system.

The ROE1200C optical amplifier is packaged in a self-contained die-casted aluminum alloy housing. Combined with our AT5000 1550nm direct or externally modulated laser transmitter, MSOs can quickly deploy and activate advanced multi-media services in long distance video transmission and high subscriber count FTTH networks.

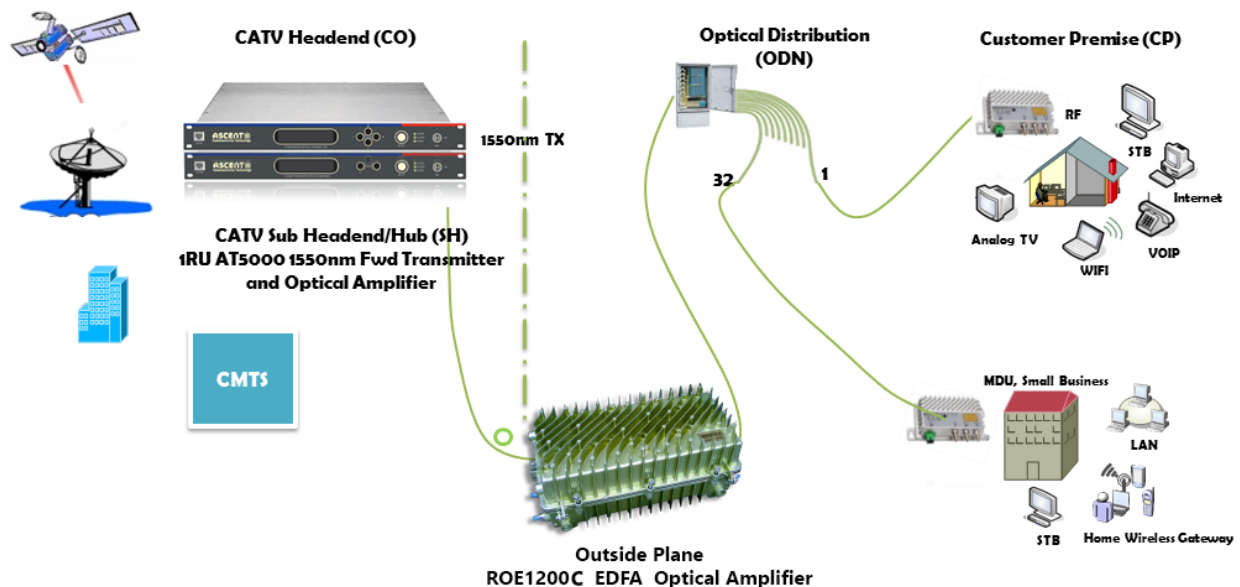
## Key Features

- Adopt high stable pump laser with low distortion and high output optical power
- Adopt high-performance Er-Yb codoped fiber, high energy conversion efficiency
- The maximum total output power is up to +36 dBm; output ports 4 to 16 optional
- Built-in APC and ATC servo circuits controlled by high precise MCU; the output optical power is -0.5 dBm to +3 dBm continuously adjustable
- Cast aluminum housing, built-in LED screen display, support Ethernet transponder

## Block Diagram



## Application Diagram



## Specifications

Item	Technique parameters
Input Wavelength Range	1545 nm to 1565 nm
Input Optical Power Range	-10 dBm to +10 dBm
Overall Output Power	≤ 36 dBm
Max Output Power per Port	≥ 22 dBm
Output Power Stability	± 0.5 dBm (@ 0 dBm to +10 dBm input)
Noise Figure	≤ 5.5 dB (@ 0 dBm input)
Return Loss	Input ≥ 45 dB Output ≥ 45 dB
Pump Power Leakage	Input ≤ -30 dBm Output ≤ -30 dBm
Optical Connector Type	SC/APC
Power Supply Input Voltage	AC 90 V to 265 V (50/60Hz)
Consumption	≤ 70 W
Operating Temperature Range	-30 °C to +55 °C
Storage Temperature Range	-40 °C to +85 °C
Maximum Operating Relative Humidity	Max 95% no condensation
Maximum Storage Relative Humidity	Max 95% no condensation
Dimension	460 (L) × 270 (W) × 170 (H) mm

## Ordering Information

ROE1200C Series Outdoor Optical EDFA Ordering Information																																				
ROE12	XXC-	XX-	00-	00-	XX-	X-	X																													
<table><tr><th></th><th>Output Port</th></tr><tr><td>01</td><td>1 Optical Output</td></tr><tr><td>02</td><td>2 Optical Outputs</td></tr><tr><td>04</td><td>4 Optical Outputs</td></tr><tr><td>08</td><td>8 Optical Outputs</td></tr><tr><td>16</td><td>16 Optical Outputs</td></tr></table>		Output Port	01	1 Optical Output	02	2 Optical Outputs	04	4 Optical Outputs	08	8 Optical Outputs	16	16 Optical Outputs		<table><tr><th></th><th>Optical Switch</th></tr><tr><td>00</td><td>None</td></tr><tr><td>21</td><td>2x1 Optical Switch</td></tr></table>		Optical Switch	00	None	21	2x1 Optical Switch		<table><tr><th></th><th>Optical Connector</th></tr><tr><td>AS</td><td>SC/APC</td></tr><tr><td>AF</td><td>FC/APC</td></tr></table>		Optical Connector	AS	SC/APC	AF	FC/APC		<table><tr><th></th><th>EMS</th></tr><tr><td>0</td><td>No EMS</td></tr><tr><td>1</td><td>With EMS</td></tr></table>		EMS	0	No EMS	1	With EMS
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Specifications and product availability are subject to change without notice.

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Ver. ACT\_ROE1200C\_Outdoor\_EDFA\_Datasheet\_V1b\_May\_2019