EUROCONTRACTS s.r.o.

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Free space optics model EL-1GL

This model can transmit data with speed 1 Gbit/s at distances up to 5100 m.

- Autotracking
- Narrow beams of emission secure data
- Special interface optimized for transmission in the atmosphere
- Double channel technology with backup supply
- Built-in service channel
- Built-in telescope for easy targeting
- Built-in defroster
- IP monitoring
- SNMP alerts
- Active link loss forwarding (ALLF) system



Aplication

Mobile comunication	Security systems	Municipal buildings	Temporary channels

Main Features

Technology of the double channel - It provides automatically operated switching to the reserve channel and back to the optical channel. Switching time is to 0.5 sec.

Autotracking - Fast and precise automatic guidance of one transmit-receive module to another during the wireless communication

Improved communication reliability – The doubled operating wavelength of the main information channel (up to 1550 nm) is shifted in the middle infrared area. That guarantees smaller attenuation in the atmosphere and increases reliability of communication line

Aerodynamic shielding – It protects optical head from overheat, prevents receiving and transmitting lens from being clogged with snow. It is an effective barrier from contamination with smog or dust

EUROCONTRACTS s.r.o. se sídlem Na Orátě 485, 783 61 Hlubočky, zapsaná v obchodním rejstříku Krajského soudu v Ostravě, oddíl C, vložka 16750, IČO: 253 82 535, DIČ: CZ253 82 535

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EL-1GL specification

Base interfaces	2x 10/100/1000 Base-TS, 1x 1000 Base-SX (SFP)	
Additional interfaces	From 2 to 63 E1 channels	
Wavelength, nm	1550	
Bandwidth of optical channel	1250 Mbps full duplex	
Fade margin at a distance of 1km, dB	44	
Latency time of optical channel, ms	< 0.125	
Link distances, m	5100	
Method of keeping direction	autotracking system	
Dynamic range of angle deviation processing (position keeping angle), mrad (grade)	65(3.7)	
Speed of automatic adjustment mrad/s	8	
Latency time of backup channel, ms	up to 350	
Power supply, V	AC 90-260 DC 48 +- 15%	
Power consumption, W	37 (67 with heated optics)	
Category temperature range of ODU, Celsius degree	minus 40 to plus 50	
Dimensions of optical unit	480x300x285	
Dimensions of interface unit	450x200x44 (19'' 1U)	
Dimensions of radio unit	200x200x70	
Weight of optical unit	6	
Weight of interface unit	2	
Weight of radio unit	1	
Cable length, m	<100	
Management, monitoring	UDP (firmware)	

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