



## Free space optics model EL-10G

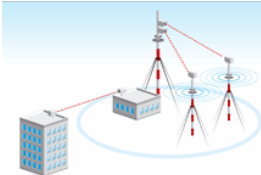
Only one wireless communication system on the world market which can transfer data with speed 10 Gbit/s in the full-duplex mode at distances up to 3000m!

- 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



## Aplication

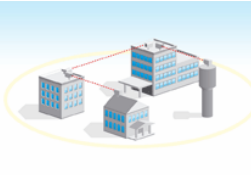
### Mobile communication



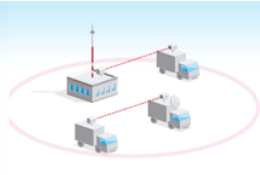
### Security systems



### 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



## EL-10G specification

Base interfaces	20-Port GbE (100M/1G) SFP, 4 TP/(100/1G) SFP Combo, 3-Port 1G/10G SFP+
Additional interfaces	---
Wavelength, nm	1550
Bandwidth of optical channel	10312,5 Mb full duplex
Fade margin at a distance of 1km, dB	28
Latency time of optical channel, ms	< 0.05
Link distances, m	3000
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	245x225x50
Weight of optical unit	6
Weight of interface unit	2
Weight of radio unit	-
Cable length, m	<50
Management, monitoring	UDP (firmware)