

1 Gbit/s

M1-GE-L

Up to 4400 m

Interfaces:

2 x 10/100/1000 BASE-TX

1 x SFP slot



FEATURES

- **Spatial stabilization system (Autotracking)**

Fast and precise automatic guidance of one optical unit to the other during the wireless communication channel tuning and operation. This decision significantly increases reliability of the wireless channel, while reducing requirements to the stability support and equipment service.

- **Improved communication reliability**

The operating wavelength of the main information channel (1550 nm) is placed in the middle infrared area that guarantees small attenuation in the atmosphere and increases communication line reliability.

- **Improved communication lines stability**

The optical transmitter is made as a light source, having a low spatial, but a high temporal coherence. That improves communication link stability, when line works in a highly heterogeneous optical channel (atmospheric turbulence).

- **Aerodynamic protection**

Protects optical head from overheating, prevents receiving and transmitting lens from snow loads, smog and dust.

- **“Double-channel” technology**

Automatically operated switching to the reserve channel and back to the optical channel with the automatic power switching possibility.

Name of options	Description
TDMoP multiplexers for transmission 2 x E1	Additionally provided protection transfer of 2 PDH 2048 kbit/s data streams. The residual data rate for Ethernet no less 95 Mbit/s
TDMoP multiplexers for transmission 4 x E1	Additionally provided protection transfer of 4 PDH 2048 kbit/s data streams. The residual data rate for Ethernet no less 90 Mbit/s
TDMoP multiplexers for transmission 8 x E1	Additionally provided protection transfer of 8 PDH 2048 kbit/s data streams. The residual data rate for Ethernet no less 82 Mbit/s
TDMoP multiplexers for transmission 16 x E1	Additionally provided protection transfer of 16 PDH 2048 kbit/s data streams. The residual data rate for Ethernet no less 65 Mbit/s
TDMoP multiplexers for transmission 24 x E1	Additionally provided protection transfer of 24 PDH 2048 kbit/s data streams. The residual data rate for Ethernet no less 48 Mbit/s
Universal mounting sets	Quick and easy transmit-receive modules mounting on horizontal, vertical, angled surface and for communications mast
Backup channel 5-6 GHz, two RF modules integrated with antennas	Provides availability of link more than 99,99%

Parameters of the model **M1-GE-L**

Throughput	1 Gbps, Full Duplex
The maximum recommended distance	4400 m
BER level	10^{-9}
Transmission delay	<0.1ms
User interfaces	2 ports RJ-45, 1 x SFP port
Channel type	standard IEEE 802.3az
Backup channel type	radio, 4,9 ÷ 6,4GHz
Power supply	AC 100-240; 50-60Hz DC 48 ±12V
Power consumption	46 W
Dimensions of the outdoor unit	480x285x300 mm
Weight of the outdoor unit	9,4 kg



A platform which successfully used all over the world



No electromagnetic radiation



Narrow transmission diagram



Interception impossibility



The invisible band