

## GigAir Free Space Optical System

### Tropical Air Series Gigabit data transmission



*The Photonix GigAir Linkhead (Outdoor Unit)*

Photonix GigAir is a Free Space Optical system designed to enable very high speed communication of voice, data and video. This system can transmit data rates of up to 1Gbps and is available in 500m or 1km configurations. Longer distances can be covered using our MegAir series. This unit has been developed with PAV in the U.K. who have more than 10,000 FSO links installed worldwide. The Tropical Series is customised for tropical latitudes with special SNMP features.

### Features

#### Benefits

- Simple rapid installation within hours
- No frequency licence allocation required Modular design - modules easily changed
- High availability
- High bandwidth
- Redeployable – moves with your network
- Interfaces with fibre optic cable
- High security system – inherent with FSO
- Full technical support provided
- Warranty extension available
- Compact all weather outdoor use design
- Optional Indoor Unit to monitor system status
- Rapid payback (ROI)
- No ongoing Spectrum licensing costs
- No environmental disruption for infrastructure
- Operating rental model available.

#### Monitoring

SNMP Management software interface is included to enable SNMP management of the link

#### Applications

- Building to building connectivity
- Wireless backhaul for 3G mobile operators
- Last mile connection to fibre optic network
- Replaces fibre optic cable in Gigabit systems
- Broadband internet access
- Integration of voice+data+video on a single link
- Disaster Recovery / Business Continuity

#### Design

The 500m system uses one laser transmitter and one receiver, while 1km system uses three transmitters to provide extra optical power.

- Digital electronics
- Indicator LEDs on link head
- Safety interlocks
- Clear LED information and Alarm relay outputs
- Integrated retiming (CDR without need of IDU).

## MegAir Free Space Optical System

### MegAir FSO Communications System



*The Photonix MegAir Linkhead (Outdoor Unit)*

Photonix MegAir is a Free Space Optical system designed to enable high speed communication of voice, data and video over distances up to 4km between link heads which have a clear line of sight between them.

This system can transmit data rates of up to 155Mbps and is available up to 2km or 2~4km configurations.

#### Benefits

- Simple rapid installation within hours
- No frequency license allocation required
- Modular in design - modules are easily changed
- High availability
- High bandwidth
- Re-deployable – moves with your network
- Interfaces with fibre optic or copper cable
- High security system – inherent in FSO technology
- Full technical support provided
- Warranty extension available
- Compact all weather design for permanent outdoor use
- Optional Indoor Unit to monitor system status
- Rapid payback (ROI)
- No ongoing leasing costs or licensing costs
- No environmental disruption for infrastructure.
- Operating rental model available.

#### Features

The 2km system uses one laser transmitter and one receiver while the plus 2~4km system uses three transmitters to provide extra received power receiver for greater distances .

- Digital electronics
- Indicator LEDs on link head and on optional IDU
- Safety interlocks designed to ensure greater safety for installers
- Clear LED information and Alarm relay outputs
- Integrated retiming (CDR without need of IDU)

#### Applications

- Building to building connectivity
- Wireless backhaul for mobile operators
- Last mile connection to fibre optic network
- Substitution for fibre optic cable or copper wire
- LAN extension
- Broadband internet access
- Integration of voice, data and video on a single link
- Disaster Recovery / Business Continuity

#### Options

##### SNMP Management system

An optional SNMP Management Unit (Proxy) is available for those customers who require SNMP management of the link

##### Data Muxes

Optional multiplexers for lower speed data are also available