



## Trinity MW100 17/24 Trinity MW360 17/24 Compact microwave links in 17 or 24 GHz!

### **Compact, easy to deploy, cost effective radio relay link!**

The Sub10 Trinity MW100 17/24 and Trinity MW360 17/24 links are built into outdoor unit with electrical or fiber optic Fast & Gigabit Ethernet interface. The link can be supplied with integrated high performance antenna systems. Incorporated modulation and error correction ensure low residual BER and high signal quality under all weather conditions.

#### **Features & Benefits**

- Frequency bands 17 or 24 GHz
- Full duplex up to 384 Mbps
- Modulation QPSK to 256 QAM
- Selectable Optical interface
- Adaptive coding & modulation (ACM)
- Forward error correction (FEC)
- Automatic TX power control (ATPC)
- All outdoor design
- Plug and Play, easy to install

#### **Applications**

- Last mile connection
- Backbone infrastructure
- LAN, MAN and WAN extension
- PBX interconnecting
- Path redundancy
- Campus connectivity
- Leased Line Replacement



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# System Specification



## General system information:

	<b>17 GHz</b>	<b>24 GHz</b>
<b>Models</b>	Trinity MW100 17 Trinity MW360 17	Trinity MW100 24 Trinity MW360 24
<b>Operating Frequency Range (GHz)</b>	17.1–17.3	24.0-24.25
<b>TX / RX Spacing (MHz)</b>	–	
<b>Channel Spacing (MHz)</b>	7 / 14 / 28 / 56	
<b>Capacity (Mbps)</b>	up to 100 (Trinity MW100 models) and up to 384 (Trinity MW360 models)	
<b>Modulation</b>	QPSK / 16 / 32 / 64 / 128 / 256 QAM	
<b>Frequency Stability</b>	< 10 ppm	
<b>Forward Error Correction</b>	Trellis Coded Modulation with Concatenated Reed-Solomon error correction	
<b>System Configurations</b>	1+0, 2+0	
<b>TX Power max. @256QAM (dBm)</b>	SRD 20 EIRP (5 dBm max.)	
<b>Automatic Transmit Power Control</b>	ATPC	
<b>Adaptive coding &amp; modulation</b>	ACM	
<b>Interfaces</b>	2x 100Base-TX / 2x 1000Base-T, connector RJ-45 VLAN packets up to 10,240 bytes Auto Negotiation or manual setting 1000 / 100 / 10 Full / Half Duplex, Flow Control, Auto MDIX, Master / Slave Option: fiber optic 1000Base-SX or 1000Base-LX	
<b>Management</b>	Diagnostic channel with Ethernet / RS-232 interface Proprietary Network Management System SCS SNMP protocol ver. 1	
<b>Antennas</b>		
0.3 m gain (dB)	33	35
0.6 m gain (dB)	38	40
0.9 m gain (dB)	41	43
1.2 m gain (dB)	44	45
Class RPE	Class 2 or Class 3	
Polarization	dual polarized	
<b>Power supply</b>		
=48 V	+36 to +72 V	
Power consumption	25 W	
ODU	S-STP Cat.7 cable up to 100 m length, or fiber optic cable	
<b>Temperature</b>		
ODU	–33 to +55 °C	
Protected Terminal Box	–5 to +55 °C	
<b>Dimensions and Weight</b>		
Dimensions (Width x Height x Depth)	25.5 x 30.1 x 13.3 cm	
Weight	5.1 kg	

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