



**AUSTRALIA'S MICROWAVE LINK MANUFACTURER**

**ETHERMUX E1000 NEW RELEASE**  
Go to [www.emclarity.com.au](http://www.emclarity.com.au) for more details.



## **E1000 EtherMux® -PTP Links**

**Spectrally Efficient Agile Radio - 1200Mbps Capacity**

Data Rates up to 1200Mbps Full Duplex per Modem

Capable of Two Modems per Indoor Unit  
(Total 2.4Gbps throughput)

Channel Widths: 27.5, 40, 55, 80MHz

Frequency Bands: 8, 11, 13, 18, 23GHz

Adaptive Modulation QPSK to 256QAM

Hitless Switching

1+0, 1+1, 2+0 Frequency & Space Diversity

High Tx Power for improved performance

Integrated GPON Bridge Support

4 x GIGE ports, GPON, 1 Gig Optical Interfaces

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## Radio (per Modem Card)

Bands (GHz)	Frequency (GHz)	Channels (MHz)	Max Throughput in widest avail channel (Mbps)		
			No Xpic	Xpic	2+0 Xpic
8	7.725 - 8.275	29.65	201	402	804
11	10.7 - 11.7	40, 80 <sup>#</sup>	585	1170	2340
13	12.75 - 13.25	28	201	402	804
18	17.7 - 19.7	13.75, 27.5, 55, 80 <sup>#</sup>	585	1170	2340
23	21.2 - 23.6	28, 50, 80 <sup>#</sup>	585	1170	2340

# Required adjacent channel registration.

Modulations (Adaptive, Hitless Switching):

QPSK, 16QAM, 64QAM, 256QAM

Forward Error Correction:

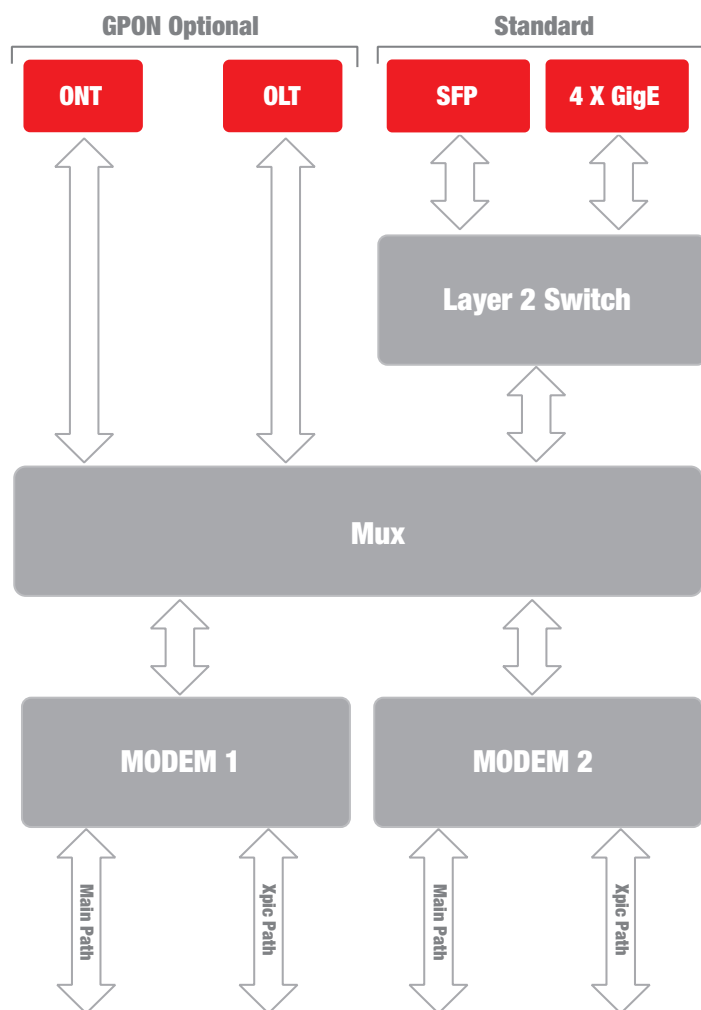
Trellis Coding and Reed-Solomon

Configuration:

1+0, 1+1, 2+0, Frequency and Space Diversity

## Configurable Customer Capacity and Interfaces

### 1+0 / 1+1 System



## Customer Interfaces

Standard:

4 x 10/100/1000Base-T Ports, RJ-45

Allows Link Aggregation up to 2400Mbps (full duplex)

Option 1 x 1000Base-X Port, SFP 3.3V @ 300mA max, 20 Contact

Option GPON ONT/OLT Interface

## Management and Hardware

Command Line: Serial Console Port (USB2)

SNMP: V1, V2c, Std/Private MIBs (Any Ethernet Port)

Web Interface: HTTP (Any Ethernet Port)

## MAC and Networking

Auto-Crossover & Auto-Negotiation

Jumbo frames up to 4K byte

Quality of Service, Trunking, Stacking, and/or Spanning Tree

QoS per Port, per IEEE802.1p tagged frames, IPv4 Type of Service (TOS) or

Differentiated Services (DiffServ), IPv6 Traffic Class, 802.1Q VLAN ID,

Destination MAC address or Source MAC address

## Environmental and Mechanical

RF Head Unit (ODU) Design Temp: -30 to 60°C (in shade)

Configurable Customer Unit (IDU) Temp: 0 to 50°C

ODU: 170 x 170 x 60mm, IP67

IDU: 1RU (Depth 300mm), IP51

## Power Supply

Connectors: Pluggable Screw Terminals

Input Voltage: -48VDC nominal (-36 to -60VDC)

Input Current: < 7.5amp (Input Voltage = -36VDC)

IDU Power Consumption: < 20W (1+0 Config)

ODU Power Consumption: < 35W

Optional AC Supply: 90 to 264VAC

