

i-MO 310 Series Bonding Router

OptiBond™



Advanced Bandwidth Technologies



Connectivity wherever & whenever you need it...

The i-MO 310 multichannel router appliance is ideal for providing a small branch office, home office, temporary locations or mobile service with a highly resilient high performance connection to the internet or corporate LAN.

As standard the appliance is equipped with 6 x GBit Ethernet ports which can individually be configured as WAN or LAN ports.

Optionally the appliance can be upgraded with up to 3 x LTE (4G) or UMTS (3G) cellular modems and up to 6 x network SIMs. If equipped with more SIMs than cellular modems the intelligent i-MO firmware will select the SIM to active based upon network availability or bandwidth allowance.

The Administrative Web Interface easily allows the appliance to be configured for link-failover (e.g. from WAN to cellular) in addition to link aggregation to increase performance.

The appliance is powered from a single 12V power supply. This can either be provided by the included external AC adapter (100-240V, 50-60Hz) or alternatively it can be powered from a standard 12V automotive supply.

Alternatively for more demanding temporary or mobile applications the power source can be upgraded to an intelligent 10V to 30V DC power supply. This enables the unit to be powered directly from a solar backed battery, a 24V DC truck or boat supply or other variable DC supply.

The appliance can be fitted with up to 128GB of flash storage which can be accessed by the optional NAS software module. There is also an external USB 2.0 port for future expansion.

Software Features

i-MO 310 Series	
i-MO Firmware with	Bandwidth Aggregation Cellular SIM management Intelligent Failover Session Persistence
WAN	DHCP Client Static IP WAN Link Health Check
LAN	Multiple LAN subnets supported DHCP Server DHCP Reservation
VPN	Up to 5 concurrent VPN Tunnels (incoming and outgoing) IPSEC Site-to-Site mode Ciphers: AES and 3DES Hashes: MD5 and SHA1 Pre-shared Key NAT-Traversal Dead Peer Detection
Firewall	Stateful firewall Multiple zones: WAN, DMZ, LAN Multi NAT IP Forwarding Port Forwarding
Advanced QOS	Bandwidth Reservation Application Prioritization
Device Management	Web Administrative Interface Export / Import Configuration



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Technical Specifications	310
Format	Mobile / Desktop
Dimensions (WxHxD)	233 x 233 x 82 mm
Weight	2.0 Kg
Mounting	Screw mount option
Status	Intelligent LCD status panel
Embedded Modems	3 x internal slots for LTE/UMTS modules
Cellular Data SIMS	6
Antenna Connectors	5 x SMA
LAN / WAN Interface	6 Gigabit Ethernet ports that individually configurable for WAN or LAN function. LAN ports can be bridged together to act as a switch.
Management Port	RS232 serial console
Power Input	DC 12V 4A including power conditioning filter for connection direct to automotive supply. Optional internal intelligent 10V to 32V power supply module.
Power Supply	External AC Adapter 100V – 240V / DC Output 12V 5A
Max Power Consumption	30W
Operating Temperature	0°C to to ~45°C
Storage	-20°C to +60°C
Humidity	10% to 80% (non-condensing)
CPU	Intel Atom D525 1.8GHz Dual Core 1M cache
Memory	1GB DDR3 1333MHz
Storage	up to 128GB internal flash storage
Expansion	1 x USB2.0 480Mbs port
WiFi WLAN Access Point	802.11 b/g/n
Operating Frequency	2.412 ~ 2.472GHz, 2.484GHz
Max Power Output	17dbm ± 2dbm

Features

Software

i-MO Firmware with:
OptiBond Advanced Bandwidth
Technology
Cellular SIM management
Intelligent Failover
Session Persistence

Device Management

Web Administrative Interface
Export / Import Configuration
Command Line Interface

WAN

DHCP Client
Static IP
WAN Link Health Check

LAN

Multiple LAN subnets supported
DHCP Server
DHCP Reservation
DNS Server

WLAN

802.11 b/g/n Access Point

VPN

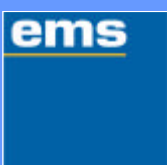
Up to 5 concurrent VPN Tunnels
(incoming and outgoing)
IPsec VPN
Site-to-Site mode
Ciphers: AES and 3DES
Hashes: MD5 and SHA1
Pre-shared Key
NAT-Traversal
Dead Peer Detection

Firewall

Stateful firewall with support for PPTP,
FTP,SIP,H.323
Multiple zones: WAN, DMZ, LAN
Multi NAT
IP Forwarding
Port Forwarding

Advanced QoS

Bandwidth Reservation
Application Prioritization



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