

i-MO 200-D Series *Bonding Router*

OptiBond™



Advanced Bandwidth Technologies



Network Resilience ~ connectivity wherever & whenever you need it...

The i-MO 200-D Series router is a dual port ADSL2+ router with an embedded x86 processor, capable of providing broadband Internet speeds up to 48Mbps downstream and 4Mbps upstream.

The i-MO 200-D Series multichannel router is ideal for providing a small branch office, home office, temporary locations, or mobile service with a high performance, resilient connection to the Internet or corporate LAN.

As standard the appliance is equipped with 2 x ADSL & 2 x 10/100 Ethernet ports, one of which be configured as WAN or LAN ports. The ADSL ports and WAN port on the appliance can be bonded together for extra bandwidth or can operate independently. When operated independently different traffic can be routed on separate ports. Alternatively, the two ports can also be used for redundant links, with different carriers or even different ADSL types.

Two independent Network Interface Controllers (NICs) allow separate configurations for each network port. Different security levels can be set for each network which is ideal for hosting a public server and a private LAN with the same Internet connection. Alternatively each network can be routed to ADSL ports independently.

Optionally the appliance can be upgraded with up to 2 x LTE+ (4G) or UMTS (3G) cellular modems.

The individual LTE+ ports can be bonded together for extra bandwidth or can operate independently. When operated independently, different traffic types can be routed on separate LTE links (e.g. one link for data, the other for VOIP).

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.

There is an IDE interface for a 2.5" HDD. There is also an external USB 2.0 port for future expansion.

Software Features

i-MO 200-D Series	
i-MO Firmware with	Bandwidth Aggregation Intelligent Failover Session Persistence
WAN	Static IP WAN Link Health Check
LAN	Multiple LAN subnets supported DHCP Server DHCP Reservation
VPN	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 Command Line Interface



i-MO 200-D Series Bonding Router



Technical Specifications	200-D
Format	Mobile / Desktop
Dimensions (WxHxD)	177 x 177 x 33 mm
Weight	0.9 Kg
Status	13x indicating LEDs
Embedded Modems	2 x internal slots for LTE/UMTS modules
Cellular Data SIMS	2
Antenna Connectors	3 x SMA
LAN / WAN Interface	2 10/100 Ethernet ports that individually configurable for WAN or LAN function. LAN ports can be bridged together to act as a switch.
ADSL	2 x ADSL 2+ Annex M
Management Port	RS232 serial console
Power Input	12VDC +/- 5%
Power Supply	External AC Adapter 100 - 240 VAC (47 - 63Hz)
Max Power Consumption	Max. power consumption : 35W (Dual ADSL + Wifi + 3G)
Operating Temperature	0°C to to ~45°C
Storage	-20°C to +60°C
Humidity	10% to 80% (non-condensing)
CPU	AMD Geode LX800 500MHz processor
Memory	DDR400 RAM SO-DIMM (256MB or 512MB)
Storage	IDE interface for a 2.5" HDD
Expansion	Standard Mini-PCI cards or Geos-Plugins for WiFi, Satellite, 3G, WiMax and 4G/LTE interfaces. Plus USB 2 for future expansion.
WiFi WLAN Access Point	802.11 b/g/n
Operating Frequency	2.412 ~ 2.472GHz, 2.484GHz

Features

Software

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

Device Management

Web Administrative Interface
Export / Import Configuration
Command Line Interface

WAN

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

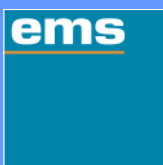
Up to 5 concurrent VPN Tunnels
(incoming and outgoing)
IPsec VPN
Site-to-Site mode
Ciphers: AES and 3DES
Hashes: MD5 and SHA1
Pre-shared Key
NAT-Traversal
Dead Peer Detection

Advanced QoS

Bandwidth Reservation
Application Prioritization

Firewall

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



UK Head Office:

Electronic Media Services Ltd
Passfield Business Centre,
Lynchborough Road, Liphook,
Hampshire, GU30 7SB
Tel: +44 (0)1428 751655
Fax: +44 (0)1428 751654
e-mail: imo@ems-uk.com

SE Asia Distributor:

Francis Lim
Tel: +65 987 89009
e-mail: francis.lim@ems-uk.com