



mvision  
132 – 140 Goswell Road  
London EC1V 7DY  
Main tel: 0800 197 0300  
Main fax: 020 7251 7001  
info@mvision.co.uk  
www.mvision.co.uk



# TANDBERG Border Controller

The TANDBERG Border Controller provides Firewall Traversal and Simplified Dialing services for all H.323 devices enabling visual communication with partners, vendors, supply chains and remote workers.



Rear View  
Easy setup and installation

#### DESIGN FEATURES

- Appliance-based architecture allows for easy deployment and high reliability
- Designed to work with any H.323 device
- Designed to work with any firewall
- Full multi vendor support
- Secure and reliable
- 1U rack mountable

#### APPLICATION FEATURES

- Embedded setup wizard for easy installation
- Firewall Traversal H.460.18/.19 Compliant including support for Multiplexed Media
- Flexible zone configuration with named zones and default zone
- Supports inter- and intra-zone bandwidth control
- Traverse any number of firewalls
- URI Dialing
- Device authentication using H.235
- Policy Engine for processing calls
- Provides IPv4/v6 Translation Services

#### PERFORMANCE FEATURES

- Uses only solid state memory for high reliability
- Supports up to 500 registered devices and 100 concurrent traversal calls
- Up to 100 neighboring zones and 50 traversal zones
- Allows URI dialing for massive scalability
- HTTPS, SSH, and SCP for secure management

## ARCHITECTURE

Secure appliance based architecture  
Flash memory (diskless and no hard drive)  
ITU-T H.323 v5 compliant  
ITU-T H.225 v4 compliant  
TANDBERG Expressway Technology  
H.323 v5 Annex O (for DNS dialing support)  
H.460.18/.19 compliant  
H.460.18 client proxy support  
Supports H.460.19 multiplexed media

## RELIABILITY

Registrations survive system restart  
Fast start-up time  
Border Controller process recycling within seconds  
H.225 Alternate Gatekeeper Support

## SECURITY

Secure Management with HTTPS, SSH, and SCP  
- Secure File Transfer  
- Inactivity Timeout  
Can lock-down IP services  
Authentication required on HTTP(S), Telnet, SSH, SCP, and serial port  
Compatible with H.235 v2 and v3 enabled H.323 devices  
H.235 Authentication support

## MANAGEMENT

Supports industry standards such as RS-232, Telnet, HTTP(S), XML, SNMP, SCP, and SSH  
Embedded setup wizard on serial port for initial configuration  
Management support through TANDBERG Management Suite 9.5 or newer  
Advanced management support and configuration with TANDBERG Management Suite 11.0 or newer  
Call logging and diagnostics  
Support for logging to a syslog server  
Local time zone aware

## CALL CONTROL AND REGISTRATIONS

Supports manual registration of Expressway enabled endpoints and API call control  
Supports H.225/Q.931, H.245 call control routed mode  
Registration of H.323 ID, E.164 aliases and services  
Supports Unicode (UTF-8) registration for global implementation  
Initiate, disconnect and transfer H.323 calls from the Border Controller API interface  
URI Dialing  
Up to 100 traversal calls  
Up to 100 services for a single device  
Up to 500 registered Expressway Devices  
Direct call signaling between neighboring border controllers and gatekeepers  
Call Policy Management (RFC 3880)

## ZONE CONTROL

Supports Remote Zone monitoring  
Supports Remote Zone redundancy  
Supports up to 100 neighboring Border Controllers and gatekeepers  
Up to 50 traversal zones  
Supports sub-zone area definition for bandwidth management  
Flexible zone configuration with named zones and default zone  
Supports forwarding of requests to neighboring border controllers and gatekeepers  
Can disable automatic discovery and forwarding of LRQ's  
Registration Control  
(open, specifically allow, specifically deny)

## BANDWIDTH MANAGEMENT

Interzone — definable call by call  
- Max bandwidth per call  
- Max aggregate bandwidth for all neighboring zones  
Intrazone — definable call by call  
- Max bandwidth per call  
- Max aggregate bandwidth  
Auto downspeeding if call exceeds per-call maximum  
Gateway load balancing (requires TANDBERG Gateway running software version G3.0 or later)

## INTERFACES

3x LAN/Ethernet (RJ-45), 10/100 Base-TX port  
2X RS232 DB-9 (front + rear)  
1x USB (rear)

## POWER

Auto-sensing 250W (Max) power supply  
90–264V AC full range @ 47–63Hz

## COOLING SYSTEM

Two 40mm fans for system cooling

## SYSTEM CONTROL AND INDICATIONS

1x Power LED  
1x Power on/off switch (rear)  
3x Act/Link/10/100 LEDs on RJ-45  
3x Act/Link/10/100 LEDs on RJ-45

## NETWORK

Supports DNS Addressing  
Supports IPv4 and IPv6 simultaneously  
Provides IPv4/v6 Translation Services

## APPROVALS

Directive 73/23/EEC (Low Voltage Directive)  
- Standard EN 60950  
Directive 89/336/EEC (EMC Directive)  
- Standard EN 55022, Class A  
- Standard EN 55024  
- Standard EN 61000-3-2/-3-3  
Approved according to UL 60950  
and CAN/CSA C22.2 No. 60950  
Complies with FCC15B Class A

## DIMENSIONS

426(W) x 228.6(D) x 43.5(H) mm (16.8" x 9" x 1.72")  
1U rack-mount chassis

## ENVIRONMENT

Operating temperatures: 0° C to 40° C (32° F to 104° F)  
Storage temperatures: -20° C to 80° C (-4° F to 140° F)  
Relative humidity: 10% to 90% (Non-condensing)

## CERTIFICATION

LVD 73/23/EEC  
EMC 89/366/EEC  
ICSA (software version 5.x)



All specifications subject to change without notice, system specifics may vary.

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## TANDBERG

# Border Controller

TANDBERG WORLD HEADQUARTERS  
Phillip Pedersens vei 20  
1366 Lysaker, Norway  
Tel: +47 67 125 125  
Fax: +47 67 125 234  
Video: +47 67 126 126  
E-mail: [tandberg@tandberg.net](mailto:tandberg@tandberg.net)

200 Park Avenue, Suite 2005  
New York, NY U.S.A. 10166  
Tel: +1 212 692 6500  
Tel: +1 800 538 2884 (toll free in the U.S.)  
Fax: +1 212 692 6501  
Video: +1 212 692 6535  
E-mail: [tandberg@tandbergusa.com](mailto:tandberg@tandbergusa.com)

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