

UNIVERGE® Sphericall® Media Gateways & Conferencing Bridge



At a Glance

- COHub
- PhoneHub
- BranchHub
- MeetingHub 60-Port conference bridge

Overview

UNIVERGE Sphericall Media Gateways are easy-to-deploy network appliances. The COHub, BranchHub and PhoneHub provide PSTN connectivity and legacy PBX interconnection as well as IP-enabling analog stations for seamless migration to VoIP. The MeetingHub Conferencing Bridge delivers powerful on-demand conferencing for up to 60 callers.

Sphericall Media Gateways and the MeetingHub Conferencing Bridge provide the tools that enable organizations to leverage their technology, protect their existing investments and fully meet employee and customer needs.

Solution

COHub

Digital Trunk Connectivity

- Connects Sphericall Manager to the PSTN for outside calling via T1/E1 PRI, T1 CAS, E1/R2
- Connects Sphericall Manager to an existing PBX via T1 Q.SIG to integrate branch offices or consolidate multiple PBXs
- Auto-discovery and configuration for easy deployment

PhoneHub

Analog Station Connectivity

- VoIP enables analog stations including phones, fax machines, and more
- Integrates analog phones with Sphericall Desktop software
- Supports up to 24 ports per media converter
- Power-loss transfer connects emergency phone to the PSTN
- Auto-discovery and configuration for easy deployment

BranchHub

Analog Station & Trunk Connectivity

- Connects Sphericall Manager to the PSTN for outside calling via six analog loop start trunks
- Supports up to 12 analog stations per media gateway
- Integrates analog phones with Sphericall Desktop software
- Power-loss transfer connects phones to the PSTN
- Auto-discovery and configuration for easy deployment

MeetingHub

60 Port Conference Bridge

- In-house conference bridge enables up to 60 simultaneous participants across multiple conference lines
- Eliminates need for expensive outside conferencing services
- Includes all software licensing at no additional charge

- Each conference bridge can be configured with multiple DIDs or extensions or can be deployed as private conference lines
- Spherically Desktop software displays the Caller ID of conference participants along with call duration
- Auto-discovery and configuration for easy deployment

Media Gateway & Conferencing Specifications

COHub Specifications

- Signaling protocols: T1/E1 ISDN, T1/E1 Q.SIG, T1 CAS, E1/R2
- Complies with AT&T TR62411 for clock and data recovery, jitter tolerance and other electrical standards
- Long Haul DS1 and Short Haul DSX1 digital network interfaces
- RJ48C jack for T1/E1 and two BNC jacks for E1 access
- Dual Bantam jack for T1/E1 monitoring
- Full touch-tone DTMF support

BranchHub Specifications

- 6 loop start FXO ports
- Ring detection: 20 Hz @ 40-130VAC
- Caller ID detection per Telcordia GR-30-CORE
- 6 failover ports to FXS stations
- Software programmable for country-specific tone and timing requirements

Media Gateway Network Specifications

- Auto-discovery to Spherically IP PBX
- Auto-sensing 10/100 RJ45 Ethernet interface
- G.711, G.729 codec support
- Codec auto-negotiation
- A-law or μ -law companding
- Echo cancellation per G.168
- QoS: 802.1 p/q for Ethernet, DiffServ for IP
- DHCP or static IP addressing
- RTCP media, control, statistics and reporting
- TFTP for firmware updates
- Telnet
- SNMP

MeetingHub Specifications

- Up to 60 individual conference ports per Hub
- Multiple virtual conference bridge lines per Hub
- Conference call participants displayed and managed via Spherically Desktop
- Automatic VoIP codec transcoding

Analog Station Specifications

- 24 FXS station ports
- 1 PSTN emergency failover port (PhoneHub)
- 6 PSTN emergency failover ports (BranchHub)
- 50-position telco connector, wired per RJ21X
- 25mA DC loop current (polarity insensitive, off-hook battery = -24VDC)
- 2 wire impedance, 600ohm nominal
- Ring generation: 20Hz, 2 secs on/4 secs off (default)
- 45Vrms, trapezoidal wave shape, 2.0A REN max
- Frequency response: 300 to 3400 Hz +/- 3dB (tx/rx)
- Max loop length: 2000 ft. (609m), 24 AWG on-premises wiring
- 2500 analog phone set support
- CLASS phones and features including: Caller ID, Call Waiting with Caller ID, FSK Message Waiting, Park, Pickup, Do Not Disturb, Forwarding
- Paging system interface
- Music-on-hold source interfaces
- Modem and fax support
- Country specific and customizable tones and timings

Regulatory Compliance

FCC part 15, Class A
FCC part 68
CE Mark
UL 1459
CSA standard C 22.2 No. 225
Industry Canada (IC) CS-03
NOM (On PhoneHub, COHub and MeetingHub only)

Functionality	Peripheral Support
Other	
Form Factor	1U 19 inch (48cm) rack mounted or standalone
System voltage	100-240 VAC auto-sensing
Normal Operating temp	32° F – 104° F, 0° C – 40° C
Normal Operating humidity	0% to 90% RHNC
Dimensions/Weight	17 ¼ x 1 ¾ x 15 in. (44 x 4.45 x 38.1cm), 10.8 lbs (4 kg)

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