

# Jio Gateway (VoLTE Gateway)



**Aria Telecom Solutions Pvt Ltd**

[www.ariatelecom.net](http://www.ariatelecom.net)



/ariatelecomsolutions



/atsplindia



/company/465988/

# ABOUT ARIA

- Since 2003 Aria Telecom is working hard towards satisfaction of our clients, With our team efforts & our clients support we became India's No 1 IVR, Voice Logger & in Many more customized telecom solutions company.
- Aria has team of qualified engineers for R&D & support.
- Aria also has most experienced team of marketing managers with technical background to understand client requirements.
- Aria has presence in most of the metro cities in India. Aria also has clients outside India like Nepal, Bhutan, African & Arab countries.
- We got Technology Excellence Award – for customized solutions-2017
- Technology Excellence Award – Leaders in IVR -2013
- Global Business & Services Award – Leader in Customized Telecom Solution 2013
- ISO 9001:2015 Certified Company
- Registered with MSME (Micro, Small & Medium\_Enterprise)
- Registered with NSIC (National Small Industries Corporation of India)
- CMMI Level 3 Company

# ARIA PRODUCT PROFILE

## Software Applications/solutions

- **Omni-Channel Communication System**-It's Unified communication system that integrates with telephony, CRM, SMS, E-mail, Web Chat, Social Media (Facebook & Twitter), Mobile App, Websites ,API etc.
- Complaint Management System (CRM).
- **IVR Software** (Interactive Voice Response)
- **Aria Namaste! - Live Chat** – it is an unified application, generally used for live monitoring the live conversations in real time.
- **Android Based Contact Centre Solution:** It works with an inbuilt Aria CRM, it enables your Android Phone to act as a call centre device
- **Web Portal** – We also into the designing of websites in an advance manner
- Custom Web and Windows-based application development
- System integration.
- Databases and programming
- Third-party software integration

## Hardware Products Range

- **Aria Call Centre Noise Telephone Headsets** - High quality call centre Noise cancelling Telephone Headset
- **TVRS** - Telephone Voice Recording System (Logger)
- **Embedded Voice Logger** - Non PC Based Voice Logger
- **GSM Gateway:** Device to connect GSM/CDMA SIM with your EPABX or Dialer.
- **FXO/FXS Gateway**
- **Parth UCS (Call Centre Suite)**-Inbound outbound complete contact centre solution
- **Parth UCS Conference Bridge**
- **Business Communication System:** multifunctional enterprise gateway that integrates voice service and data service.
- **Parth IP PBX System**
- **GSM FCT:** Fixed Cellular Terminal
- **Aria IP Phone**

# What is Jio Gateway ?

- Jio Gateway is designed as a multi-functional gateway that implements calls between VoIP network and 2G/3G/4G network. Whether it's a VoLTE or GSM it can dial inbound/outbound calls efficiently.
- The Jio Gateway has been designed to provide low-cost IP telephony solutions to SMEs and enterprises with ease and flexible application.



# Network Diagram



Here gateway will be used for SIM based calling, it will be connect with server via RJ45 cable

Agent PCs installed with soft phone with headset

Each system is connected with LAN and using soft phone with headset

# Models:



**4 Port Jio Volte Gateway**



**8 Port Jio Volte Gateway**



**16 Port Jio Volte Gateway**



**32 Port Jio Volte Gateway**

# Key Features:

- Offers 4, 8, 16, 32 LTE Channels on Demands
- Compatible with LTE-FDD/LTE-TDD//GSM Networks
- Flexible Dial Rules and Manipulation Rules
- Easy integration with HTTP API for SMS Application
- SMS to Email and Email to SMS sending facility
- Supports dialing call through VoLTE
- Easily work with different mobile networks

## Software features

- Abnormal Call Monitoring
- Auto Update SIM Number
- Caller/Called Number Handling Rules
- Calling Type: VoIP to Mobile, Mobile to VoIP
- Limitations on Call Minutes for Ports/Single Call
- Low Balance Alarm
- PSTN Hotline & SIP Codes Mapping
- Random Call Interval, White/Black List number
- SIP Trunk and Trunk Group

# Specification:

- Protocol: SIP v2.0, RFC3261, SIP TLS
- Codecs:G.711A/U law, G.723.1, G.729A/B
- Silence Suppression
- Comfort Noise Generator(CNG)
- Voice Activity Detection(VAD)
- Echo Cancellation: G.168 with up to 128ms
- Dynamic Jitter Buffer
- DTMF: RFC2833, SIP Info
- Call Progress Tone Generation
- Programmable Gain Control
- NAT: STUN, Dynamic NAT, Static NAT
- Antennas Connectors: SMA
- Ethernet Interfaces: 2\*10/100 Base-T, RJ45
- LED Indicators: Power, RUN, Signal Strength Indicators
- Console:1\* RS232 115200bps



# CDR Reports



## Web Management System

### CDR Report

Enable CDR  No  Yes

Port:

Source:

Destination:

CDR Oper:

Total: 14Item 50Item/Page 1/1Page

rt	Start Time	Answer Time	Direction	Source	Destination	PeerIP	PeerPort	LocalIP	LocalPort	Codec	FAX	Reason	EndCode	Session State	Duration (s)	RTPSend	RTP Recv	RTP Loss(%)	Jitter(ms)
1	0/00/00 00:00:00	0/00/00 00:00:00	CallOut	7709825499	12345	192.168.1.221	14820	192.168.1.222	8000	PCMU	--	Recv BYE	200	Normal	42	2442	2042	0	0
1	0/00/00 00:00:00	0/00/00 00:00:00	CallOut	7709825499	12345	192.168.1.221	16138	192.168.1.222	8000	PCMU	--	Recv BYE	200	Normal	25	1453	1472	0	0
1	0/00/00 00:00:00	0/00/00 00:00:00	CallOut	7709825499	12345	192.168.1.221	19298	192.168.1.222	8000	PCMU	--	Recv BYE	200	Normal	23	1461	1441	0	0
1	0/00/00 00:00:00	0/00/00 00:00:00	CallOut	7709825499	12345	192.168.1.221	19028	192.168.1.222	8000	PCMU	--	Recv BYE	200	Normal	87	5308	4163	0	0
1	0/00/00 00:00:00	0/00/00 00:00:00	CallOut	7709825499	12345	192.168.1.221	17658	192.168.1.222	8000	PCMU	--	Onhook	200	Normal	250	15885	14208	0	0
1	0/00/00 00:00:00	0/00/00 00:00:00	CallOut	7709825499	12345	192.168.1.221	18068	192.168.1.222	8000	PCMU	--	Onhook	200	Normal	14	498	431	0	0
1	0/00/00 00:00:00	0/00/00 00:00:00	CallOut	7709825499	12345	192.168.1.221	16718	192.168.1.222	8000	PCMU	--	Onhook	200	Normal	13	498	431	0	0
1	0/00/00 00:00:00	0/00/00 00:00:00	CallOut	9643101012	12345	192.168.1.221	10408	192.168.1.222	8000	PCMU	--	Onhook	200	Normal	9	499	431	0	0
1	0/00/00 00:00:00	0/00/00 00:00:00	CallOut	9810870101	12345	192.168.1.221	16816	192.168.1.222	8000	PCMU	--	Onhook	200	Normal	12	498	431	0	0

#### - Status & Statistics

- System Information
- Registration
- TCP/UDP Traffic
- RTP Session
- CDR
- Record Statistics

#### • Quick Setup Wizard

- + Network
- SIP Server
- Port
- + Advanced
- + Call & Routing
- + Manipulation
- + Management
- + Security
- + Tools

# Configure Gateway



## Web Management System

- + Status & Statistics
- + Quick Setup Wizard
- + Network
  - SIP Server
  - Port
- Advanced
  - FXS / FXO
  - Media Parameter
  - SIP Parameter
  - Fax Parameter
  - Digit Map
  - Feature Code
  - System Parameter
- + Call & Routing
- + Manipulation
- + Management
- + Security
- + Tools

### GSM Gateway

Timeout for Dialing	<input type="text" value="4"/>	s
Timeout for Answer(Outgoing Call)	<input type="text" value="55"/>	s
Timeout for Answer(Incoming Call)	<input type="text" value="55"/>	s
No RTP Detected	<input type="checkbox"/> Enable	
Period without RTP Packet	<input type="text" value="60"/>	s
Call Progress Tone	<input type="text" value="USA"/>	v
Ring Back Tone	<input type="text" value="440,260,480,260,2000,4000,0,0"/>	
Busy Tone	<input type="text" value="480,260,620,260,500,500,0,0"/>	
Dial Tone	<input type="text" value="350,260,440,260,0,0,0,0"/>	
Auto Gain Control	<input type="checkbox"/> Enable	

### Line Parameter

Port	<input type="text" value="Please Select Port"/>	v
Work Mode	<input type="text" value=""/>	v
Voice Output Mode	<input checked="" type="radio"/> Telephone <input type="radio"/> Headset	
Config Mode(Gain)	<input checked="" type="radio"/> Basic <input type="radio"/> Advanced	
Tx Gain	<input type="text" value=""/>	v
Rx Gain	<input type="text" value=""/>	v
REN	<input type="text" value="4"/>	

# GUI- System Information



## Web Management System

- + Status & Statistics
- + Quick Setup Wizard
- + Network
- + SIP Server
- + Port
- + Advanced
- + Call & Routing
- + Manipulation
- + Management
- + Security
- + Tools

### System Information

Device ID	da17-3140-1690-0123		
MAC Address	F8-A0-3D-20-A8-E3		
Network Mode	Router		
WAN IP Address	192.168.1.222	255.255.255.0	Static
	192.168.1.1		
LAN Port	192.168.11.1	255.255.255.0	
DNS Server	8.8.8.8	4.4.4.4	
Cloud Register Status	Not Registered		
System Uptime	5h: 49m: 10s		
NTP Status	Failed		
WAN Traffic Statistics	Received 39836944 bytes	Sent 22664091 bytes	
Usage of Flash	89 %(10866688 / 12189696) bytes		
Usage of RAM in Linux	43 %(56123392 / 128323584) bytes		
Usage of RAM in AOS	13 %(9195520 / 67100672) bytes		
Current Software Version	DAG1000-40 2.80.01.09 PCB 4 LOGIC 0 BIOS 1, 2017-03-21 15:58:33		
Backup Software Version	DAG1000-40 2.80.01.09 PCB 4 LOGIC 0 BIOS 1, 2017-03-21 15:58:33		

# Port Group



## Web Management System

- + Status & Statistics
- Quick Setup Wizard
- + Network
  - SIP Server
  - Port
- + Advanced
  - Call & Routing
    - Wildcard Group
    - Port Group
    - IP Trunk
    - Routing Parameter
    - IP->Tel Routing
    - Tel->IP/Tel Routing
    - IP->IP Routing
  - + Manipulation
  - + Management
  - + Security
  - + Tools

### Port Group

	Index	Description	Primary Display Name	Primary SIP User ID	Primary Authenticate ID	Secondary Display Name	Secondary SIP User ID	Secondary Authenticate ID	Offhook Auto-Dial	Port	Port Select	Pick Up on Group
<input type="checkbox"/>	3	5001	5001	5001	5001				12345	0,	Cyclic Ascending	*#

Total: 1 entry Page 1

# Benefits of Using Jio Gateway

- Reduce communication cost
- Sending/ Receiving SMS
- Increase productivity
- Portability
- Easy implementation



*Get Connected With US*

**ARIA TELECOM SOLUTIONS PVT. LTD.**

**Phone:** +91-120-4763988

**Email:** [sales@ariasolutions.net](mailto:sales@ariasolutions.net)

**Website:** [www.ariatelecom.net](http://www.ariatelecom.net)