

## MyAkses 3G™

The My Akses 3G and EVIC works hand in hand to provide multiple location deployment at a fraction of the cost.

The Ethernet Virtual Interface Concentrator (EVIC) is a device that aggregates connections from multiple My Akses 3G. MyAkses 3G is deployed at the network's edge and it allows you to setup a Tru'Connect network environment over a Layer 3 routed environment. The EVIC works in tandem with the My Akses 3g to provide this functionality.

MyAkses 3G is the client component of this architecture and it establishes a TCP connection with the Ethernet Virtual Interface Concentrator (EVIC). Within this TCP connection, Ethernet packets on the downstream interface of the My Akses 3G are captured and transmitted through this connection to the EVIC. The EVIC retrieves and reconstructs the Ethernet packets from the TCP connection and sends them out through its downstream interface.

The reverse also occurs, i.e., Ethernet packets are captured from the downstream interface of the EVIC and depending on the VLAN the packets come from, they are sent to the corresponding MyAkses 3G. The MyAkses 3G retrieves and reconstructs the Ethernet packets and sends them out through its downstream interface.

## Feature List

### + Easy To Setup

Setting up a MyAkses 3G is as easy as setting the IP information such as IP Address and Gateway, the IP Address of the EVIC and the shared secret.

### + Ease of Deployment

The EVIC is able to maintain a mapping of My Akses 3G identifiers to IEEE 802.1Q VLAN ID. The EVIC will tag the outgoing Layer 2 frame with the appropriate VLAN ID based on the My Akses 3G that sent that frame. This allows ANTI Labs ezXcess gateway to identify where the frame is coming from and apply appropriate access control policies to that frame. Thus, you can apply location-specific policies in the SSG (such as network access policies) to the edge devices (such as computers and PDAs). Moreover, different policies can be applied to different locations concurrently. Because there is only single point of administration (at the SSG), deploying a new site is as easy as positioning a new My Akses 3G.

### + Load Sharing

Each My Akses 3G supports upto 2 EVIC settings - primary and secondary EVIC. The My Akses 3G will

automatically switch to the secondary My Akses 3G upon detection that there is connectivity issue with the primary.

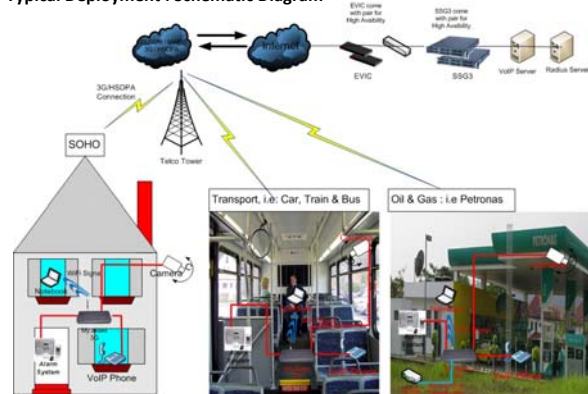
### + Broadcast Storm Control

EVIC has a built-in protection mechanism to control broadcast storm so as to minimize the impact in the network.

## Modules included

| Description          | MyAkses 3G |
|----------------------|------------|
| No. of Ports         | 4          |
| Firmware Recovery    | YES        |
| No. of VLANs         | 3          |
| Shared Secret Tunnel | YES        |
| VoIP Port            | 1          |
| WiFi 11b/g           | YES        |

## Typical Deployment : Schematic Diagram



Front View



Back View

## Product Specification of my.akses 3G wireless

The section below highlights the product specification of the my.akses 3G wireless.

Main Functionality:

- Tunnel IEEE 802.3/802.3u traffic between the LAN and wireless ports of my.akses 3G and that of designated EVICs via 3G/HSPDA backhaul.
- VoIP Analogue phone support via SIP 2.0 protocol

| Description         | Specifications   |
|---------------------|--|
| Model               | Ridaa-1000   |
| Firmware Version    | V2.00  |
| Standards           | IEEE 802.3 (10BaseT)<br>IEEE 802.3u (100BaseTX)<br>IEEE 802.11b (11, 5.5, 1 Mbit/s)<br>IEEE 802.11g (54, 48, 36, 24, 18, 12, 9, 6 Mbit/s)<br>HSDPA / UMTS: 3GPP R99, R5<br>GSM / GPRS / EDGE: 3GPP R99<br>SIP 2.0(RFC 3261)                                  |
| Protocol            | CSMA/CD<br>CSMA/CA   |
| Codec               | G.711 (PCM a-law and u-law)<br>G.723.1 (5.3K/6.3K)<br>G.726, (32K)<br>G.729A<br>iLBC   |
| Fax Support         | Fax pass through (for PCMU and PCMA)<br>T.38 FoIP (Fax over IP)  |
| Silence Suppression | VAD (Voice Activity Detection)<br>CNG (Comfort Noise Generation)<br>Line Echo Cancellation (G.168)<br>AGC (Automatic Gain Control)   |
| Ports               | WAN (vlan 1): one 10/100 RJ-45 Port<br>LAN 1-2 (vlan 0-1): 2x 10/100 RJ-45 Port<br>FXS: 1xRJ-11 Port<br>WIFI (eth2): 1x internal antenna, 1x external antenna connector<br>HSDPA: 1 x internal antenna<br>SIM / USIM card: standard 6 PIN SIM card interface |
| Cabling Type        | UTP Category 5 or Better   |
| Network Protocols   | LAN: any valid IEEE 802.3/IEEE 802.3u frames<br>WAN: TCP/IP  |

|                            |   |
|----------------------------|---|
| Operating Frequency        | HSDPA / UMTS 2100MHz<br>GSM / GPRS / EDGE 900 / 1800 / 1900MHz  |
| Physical Speed             | 10/100Mbps (Ethernet Half Duplex)<br>20/200 Mbps (Ethernet Full Duplex)<br>54Mbps (WIFI)<br>3.6Mbps (HSDPA)<br>384kbps (UMTS)<br>236.8kbps (EDGE) |
| Storage Type               | Solid State Memory  |
| RAM Size                   | 32 Mbytes   |
| Flash Memory Size          | 8 Mbytes  |
| Configuration & Diagnostic | Web-based Menu  |
| High-Availability          | Fast detection of broken tunnel<br>Auto-switch between Two EVICs when existing tunnel is down   |
| Security                   | IEEE 802.3/IEEE 802.3u frame validation<br>Shared secret for authentication between my.akses 3G and EVIC  |
| Maximum Forwarding Rate    | 3.1k pps  |
| Maximum Throughput         | 7.2 Mbps  |
| Fail-over Timing           | < 60 secs (no traffic)<br>< 15 secs (with traffic)  |
| Power Input                | 5V DC 2.5A  |
| Weight                     | 0.8Kg   |

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