

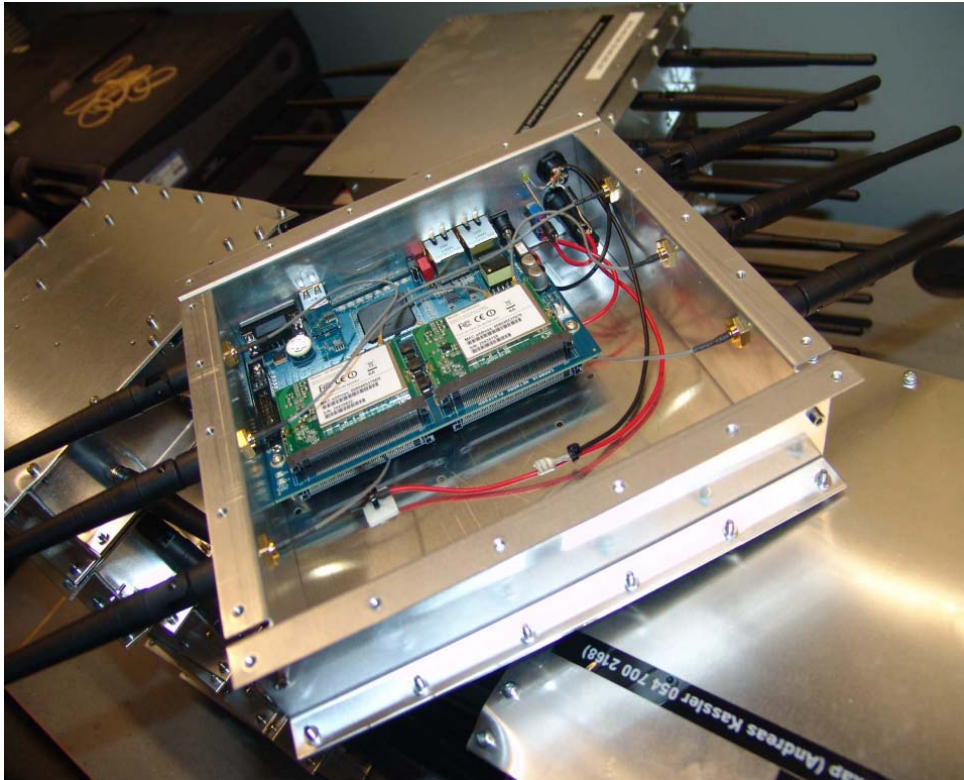




Currently the KAUMesh testbed provides the following features:

- 3 IEEE 802.11a/b/g wireless cards per node
- Each node has an Ethernet connection for control and logging
- Remote reset of nodes
- Integrated node reservation and access control system
- Graphical monitoring tools
- A wide range of routing protocols and traffic generators

KAUMesh offers a flexible architecture, both in terms of hardware and software. The deployment allows a quick re-arrangement of the mesh nodes. Users can control almost all aspects of the KAUMesh software (including the OS-kernel) remotely.



Picture 2: Mesh node - multiradio node including Cambria Platform GW2358-4 and three Atheros-based 802.11a/b/g NIC

For monitoring and control purposes each mesh node has a wired Ethernet connection to a managed network in order to send monitoring data to a monitoring server, located in the fixed network. The monitoring server also for hosts configuration information for the mesh nodes and provides software via TFTP and NFS.