# Audio Conference Communication System (ACCS)



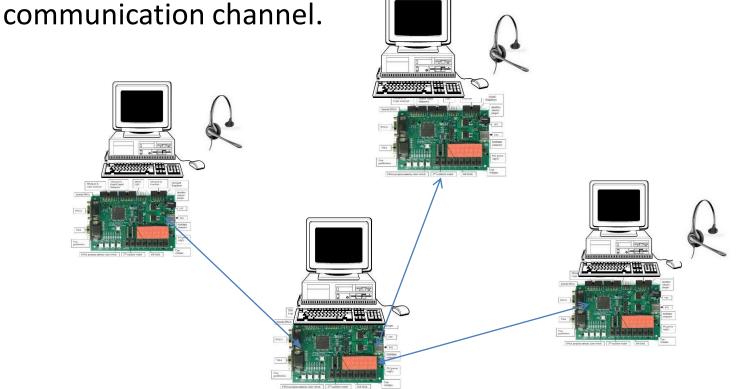
# Why ACCS?

- Robust Communication
  - Independent of the Internet.
  - Independent of Phone Network.
- Single Communication Channel and Minimum Wiring
  - Implementation of TDMA at a coordinator base

#### Overview and Features

 The prototype has 4 stations(one acts as a coordinator and station.)

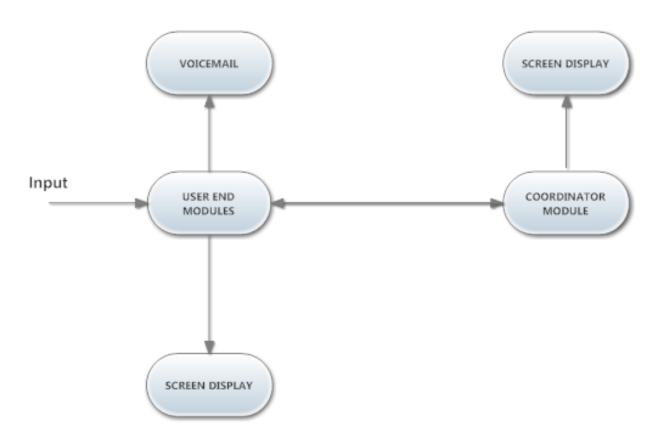
Stations are only connected to coordinator, sharing a single



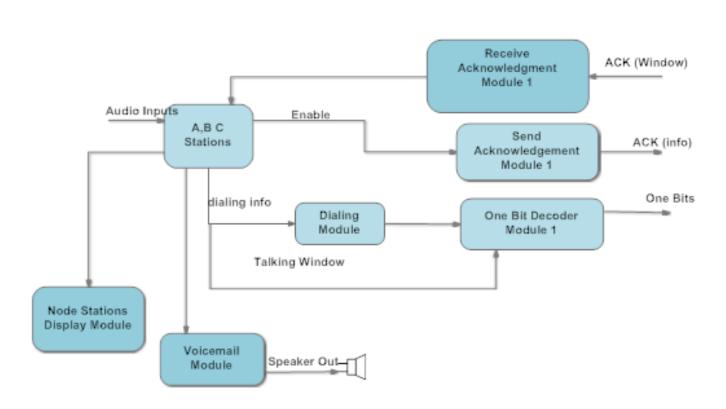
#### **Features**

- Conference Calling.
- Call or Add new individual during an ongoing conversation.
- Record/ Listen to voicemail saved on Flash ROM.
- Display system state on coordinator monitor. ( active conversations)
- Display state on individual station monitors. (busy, available, calling, recording voicemail ...etc)

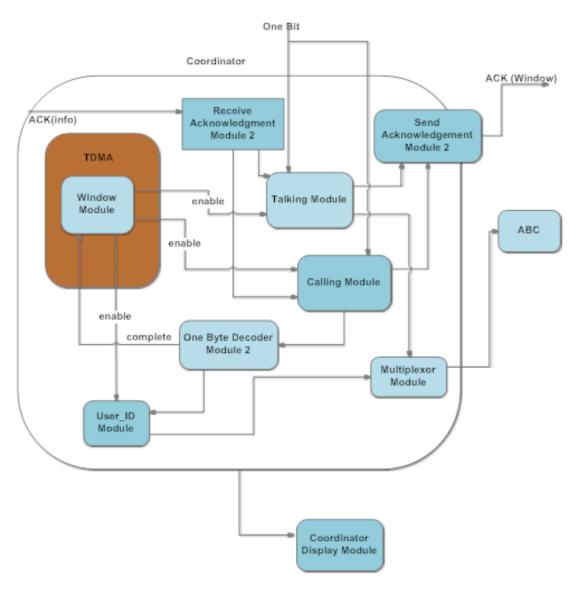
# **Overall System**



# **User-End Implementation**



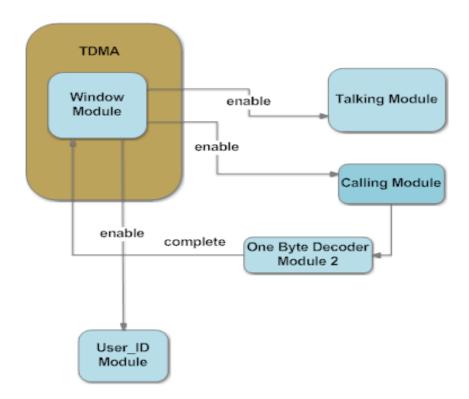
### **Coordinator Module**



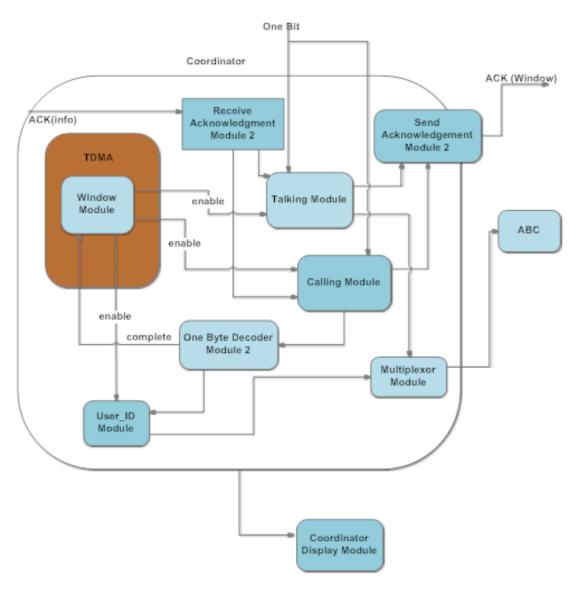
#### Coordinator- TDMA



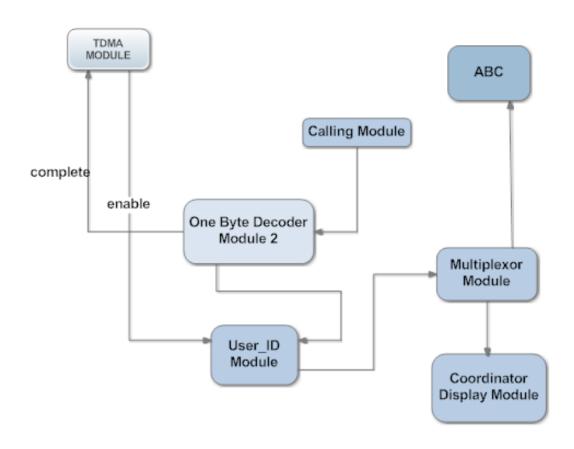
TDMA- Sliding window



### **Coordinator Module**

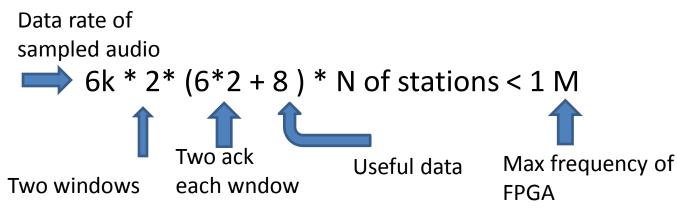


# Coordinator and Display



### Data rate and acknowledgement

Data rate calculation:



#### Acknowledgement:

It is chosen to be 011110.

#### Timeline

- We have already implemented most of our modules
- Display Modules and voice mail------Week 0f 11/21
- Adding more features i.e wireless and video---Week of 12/01