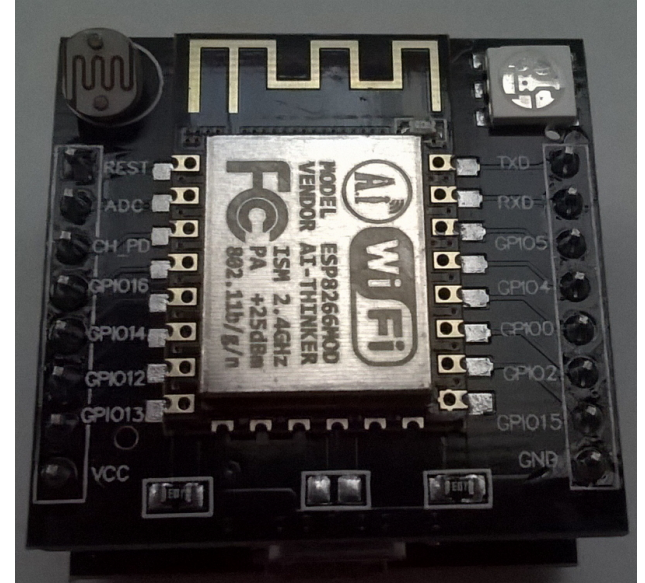


NDN Stack for ESP8266 Microcontroller

- Meet the ESP8266
 - 80MHz RISC CPU, 96KB data RAM
 - 802.11 b/g/n WiFi chip, full TCP/IP stack
 - GPIO pins, analog input, etc
 - small package, USD \$3 each
- esp8266ndn library:
 - Arduino library to bring NDN to ESP8266
 - Face with UDP transport, Interest+Data, no dispatch
 - ndnping client and server, no prefix registration
- This project: let ESP8266 do more NDN
 - prefix registration
 - ECDSA signing and verification
 - Nack



NDN Stack for ESP8266 Microcontroller

- The little ESP8266 is western maker's favorite microcontroller with built-in WiFi.
 - Giving it NDN makes it more powerful, and makes NDN more appealing.
- You need:
 - knowledge about signed Interests
 - C++11, ndn-cxx or ndn-cpp-lite API
 - Arduino IDE and NFD on your computer, a full size USB 2.0 port
- Project author will loan 2x ESP8266 Witty Cloud boards.
 - Max team size is 3. Some tasks do not require using an ESP8266 all the time.
- Project demos:
 - ndnping server with prefix registration and Nack
 - light control with ECDSA verification