

Comparison

Smarts while CPU down
eg, flash LEDs during cal
Power management,
PMU handling,
charging modes,
battery status / HDQ
Power management OK during boot
Wake dead time
seamless motion capture
seamless touchscreen capture
button lag covering
Production test assist
get suspend current while cpu down
Need to create MPU firmwar
Need to deal with power and charging
logic inside Linux / Bootloader
Wake CPU scheduling
JTAG chain

MPU

Some
Yes
MPU
MPU / Linux
MPU / Linux
MPU
Yes
Yes
Yes (big MPU)
Some
Yes
Yes
Some
(logical USB)
MSP430 queue
2 deep


no-MPU

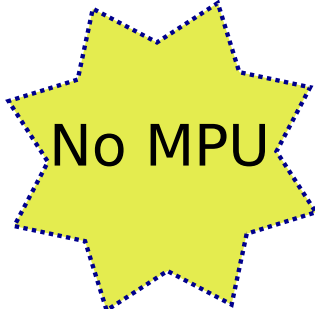
None
No
Linux
Linux
Linux
FIQ ISR
Unresponsive
No + Linux driver
No + Linux driver
No
No
No
All
6400 RTC
1 deep

MSP430 selection

9mm

 64QFN 9mm
 MSP430F417
 \$4.90/100

7.1mm

 BGA 7.1mm
 MSP430FG4618
 \$12.95/100


 No MPU
 \$0
 No lead time