

Embedded Systems in automotive

✓ AIRBAGS

ANTI-LOCK BRAKING SYSTEM

BLACK BOX

ADAPTIVE CRUISE CONTROL

DRIVE BY WIRE

SATELLITE RADIO

EMISSION CONTROL

TRACTION CONTROL

AUTOMATIC PARKING

NIGHT VISION

HEADS UP DISPLAY

BACK UP COLLISION SENSORS

NAVIGATIONAL SYSTEMS,

TYRE PRESSURE MONITOR

CLIMATE CONTROL



Tasks of ECU

✓ TODAY'S VEHICLES MAY CONTAIN 100 ECUS OR MORE, CONTROLLING FUNCTIONS THAT RANGE FROM THE ESSENTIAL (SUCH AS ENGINE AND POWER STEERING CONTROL) TO COMFORT (SUCH AS POWER WINDOWS, SEATS, AND HVAC), TO SECURITY AND ACCESS (SUCH AS DOOR LOCKS AND KEYLESS ENTRY). ECUS ALSO CONTROL PASSIVE SAFETY FEATURES, SUCH AS AIRBAGS, AND EVEN BASIC ACTIVE SAFETY FEATURES, SUCH AS AUTOMATIC EMERGENCY

ELECTRONIC CONTROL UNIT









