Microcontroller
300 MHz (32-bit)
Analog front end (AFE)
Variable voltage source & DAC
Sense resistors & ADCs
Thermistor ADCs
Heat pulse probe (HPP)
Sense needle with thermistor
HPP plastic body
Computer or datalogger connection
Computer connection
12 V power supply
3.3 V power supply
DC-DC switcher
SDRAM memory
RS-232
SDI-12
Computer or datalogger connection
Computer
Circuit
Soil column
3.3 V power supply
12 V power supply
Power supply
Computer connection
USB
Computer connection
SDRAM memory
RS-232
SDI-12
Computer or datalogger connection
Computer
Circuit
Soil column