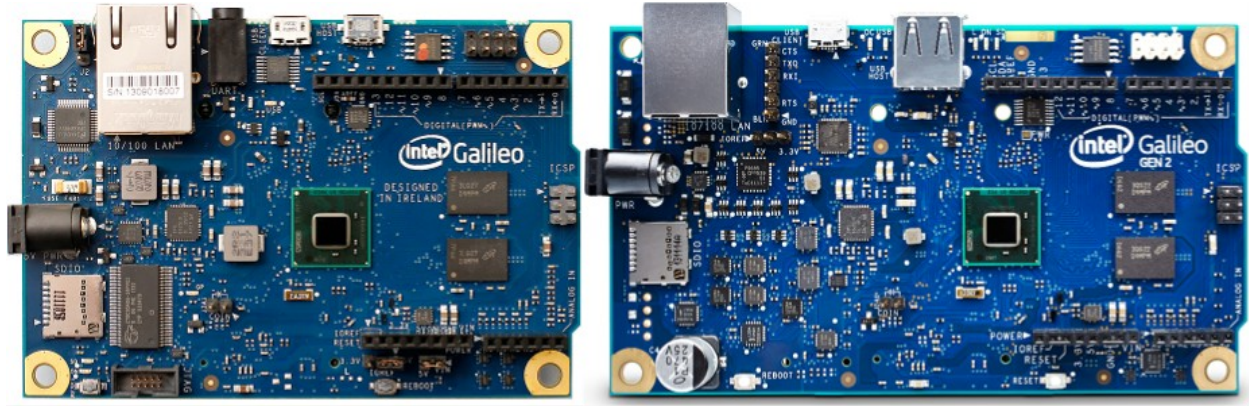


Chapter 1: Getting Started with Intel Galileo



Yocto Embedded Linux

Linux Kernel 3.8 for Intel Quark SoC

GRUB OS Loader

Unified Extensible Firmware Interface(UEFI)

Intel Galileo Gen 2 Development Board

```
+-----+
| A -   Serial Device       : /dev/ttyUSB0
| B - Lockfile Location    : /var/lock
| C -   Callin Program     :
| D -   Callout Program    :
| E -   Bps/Par/Bits       : 115200 8N1
| F - Hardware Flow Control : No
| G - Software Flow Control : No
|
|   Change which setting? █
+-----+
```



Name	Version
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Programming Languages <ul style="list-style-type: none"> <input checked="" type="checkbox"/> C/C++ Autotools support 8.5.0.201409172108 <input type="checkbox"/> C/C++ Berkeley UPC (Unified Parallel C) Toolchain Support 8.5.0.201409172108 <input type="checkbox"/> C/C++ Call Graph Visualization 3.0.0.201409171651 <input checked="" type="checkbox"/> C/C++ Development Tools 8.5.0.201409172108 <input type="checkbox"/> C/C++ Development Tools SDK 8.5.0.201409172108 <input type="checkbox"/> C/C++ IBM XLC Compiler Support 8.5.0.201409172108 	

Select All Deselect All 2 items selected

Details




- Show only the latest versions of available software
 - Hide items that are already installed
 - Group items by category
 - Show only software applicable to target environment
 - Contact all update sites during install to find required software
- What is already installed?



< Back Next > Cancel Finish

Work with:

Find more software by working with the "[Available Software Sites](#)" preferences.

Name	Version
<input checked="" type="checkbox"/>  Yocto Project ADT Plug-in	
<input checked="" type="checkbox"/>  Yocto Project Bitbake Commander Plug-in	
<input checked="" type="checkbox"/>  Yocto Project Documentation plug-in	

4 items selected

Details

- Show only the latest versions of available software
- Hide items that are already installed
- Group items by category
- What is [already installed](#)?
- Show only software applicable to target environment
- Contact all update sites during install to find required software

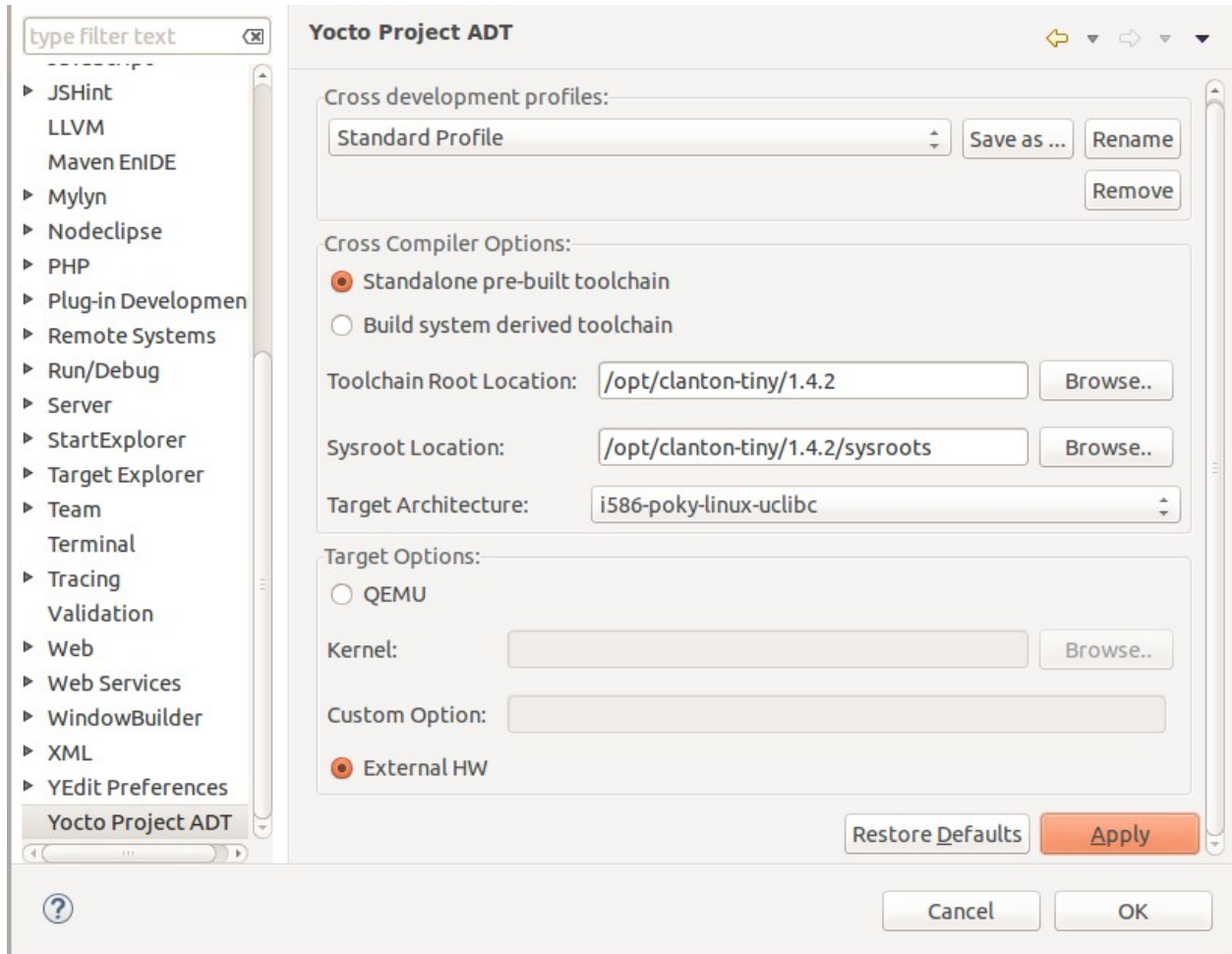


< Back

Next >

Cancel

Finish



Remote Linux System Connection

Define connection information

Parent profile:

onur-desk

Host name:

192.168.2.88

Connection name:

galileo

Description:

Verify host name

[Configure proxy settings](#)

Create, manage, and run configurations



The screenshot shows the Eclipse IDE's 'Run Configurations' dialog for a C/C++ application named 'Galileo'. The left sidebar displays a tree view of configuration types, with 'C/C++ Remote Application' expanded and 'Galileo' selected. The main area is divided into tabs: 'Main', 'Arguments', and 'Common'. The 'Main' tab is active, showing the following settings:

- Name:** Galileo
- Connection:** galileo (with 'New...' and 'Properties...' buttons)
- Project:** helloworld (with 'Browse...' button)
- Build configuration:** Build (GNU) (with a dropdown arrow)
- Select configuration using 'C/C++ Application'
- C/C++ Application:** /home/onur/workspace/helloworld/src/helloworld (with 'Variables...', 'Search Project...', and 'Browse...' buttons)
- Remote Absolute File Path for C/C++ Application:** /home/root/apps (with 'Browse...' button)
- Commands to execute before application:** (empty text field)
- Skip download to target path.

At the bottom of the dialog, there are buttons for 'Apply', 'Revert', 'Close', and 'Run'. A status bar at the very bottom indicates 'Using Legacy Remote Create Process Launcher - Select other...'. The left sidebar also shows a search filter 'type filter text' and a message 'Filter matched 38 of 40 items'.

C Project

Create C project of selected type



Project name:

Use default location

Location:

Choose file system:

Project type:

- Hello World ANSI C Project
- ▶ Shared Library
- ▶ Static Library
- ▶ Yocto Project ADT CMake Project
- ▶ Makefile project
- ▶ GNU Autotools
- ▼ Yocto Project ADT Autotools Project
 - Empty C Autotools Project
 - Hello World ANSI C Autotools Project
 - Hello World GTK C Autotools Project

Toolchains:

Show project types and toolchains only if they are supported on the platform



< Back

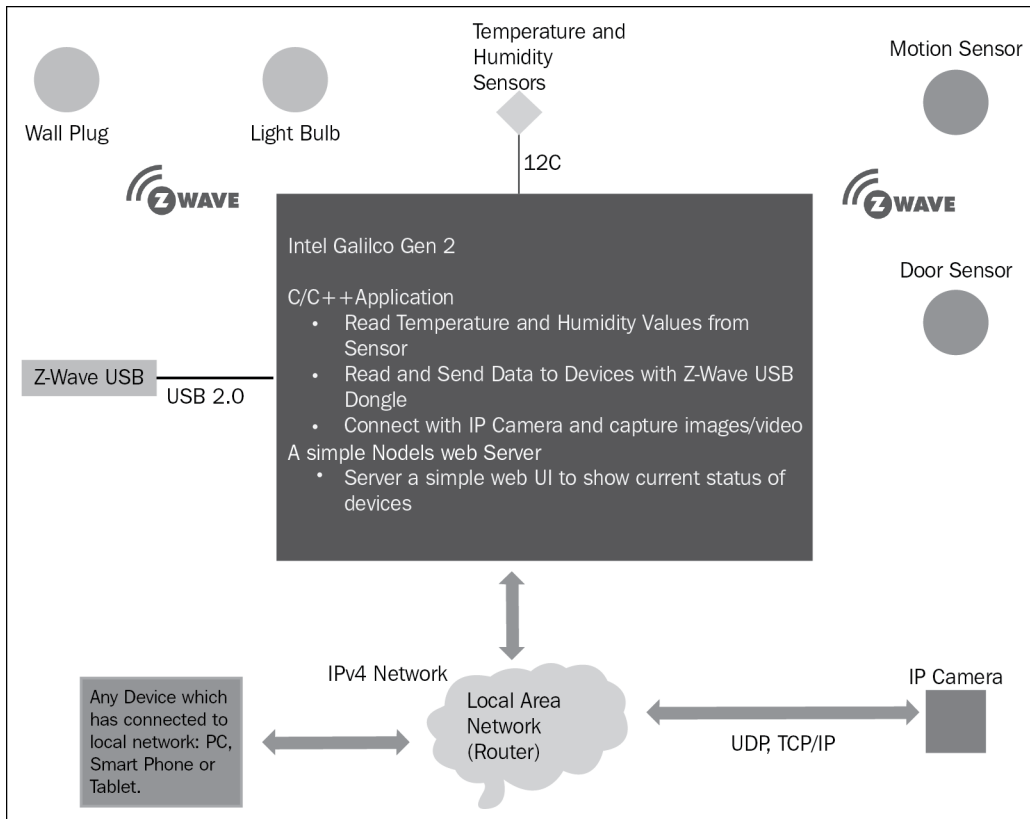
Next >

Cancel

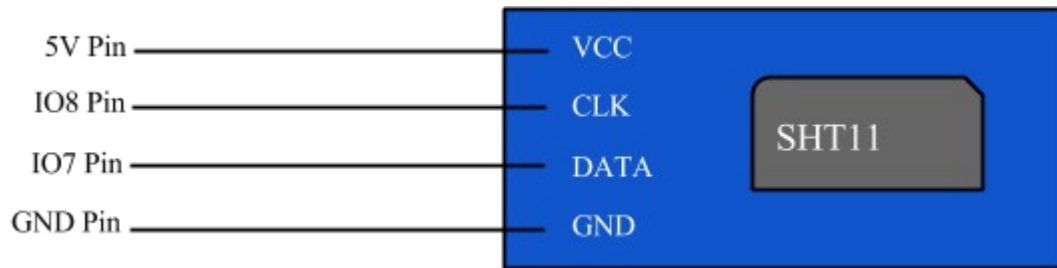
Finish

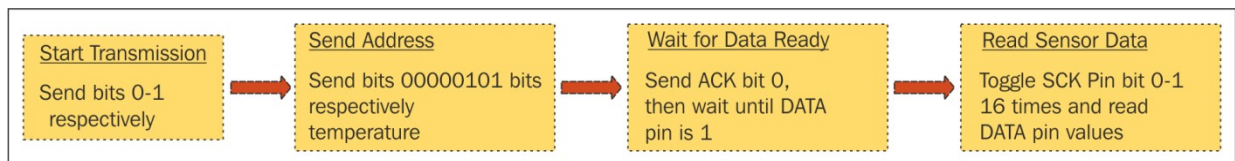
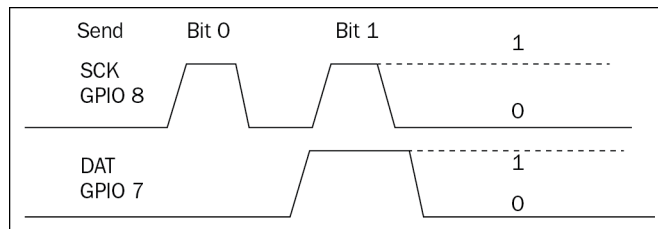
Chapter 2: Getting Started with Home Automation Applications





Chapter 3: Energy Management with Environmental and Electrical Sensors





Chapter 4: Energy Management with Light Sensors and Extending Use Cases









Chapter 5: Home Monitoring with Common Security Sensors



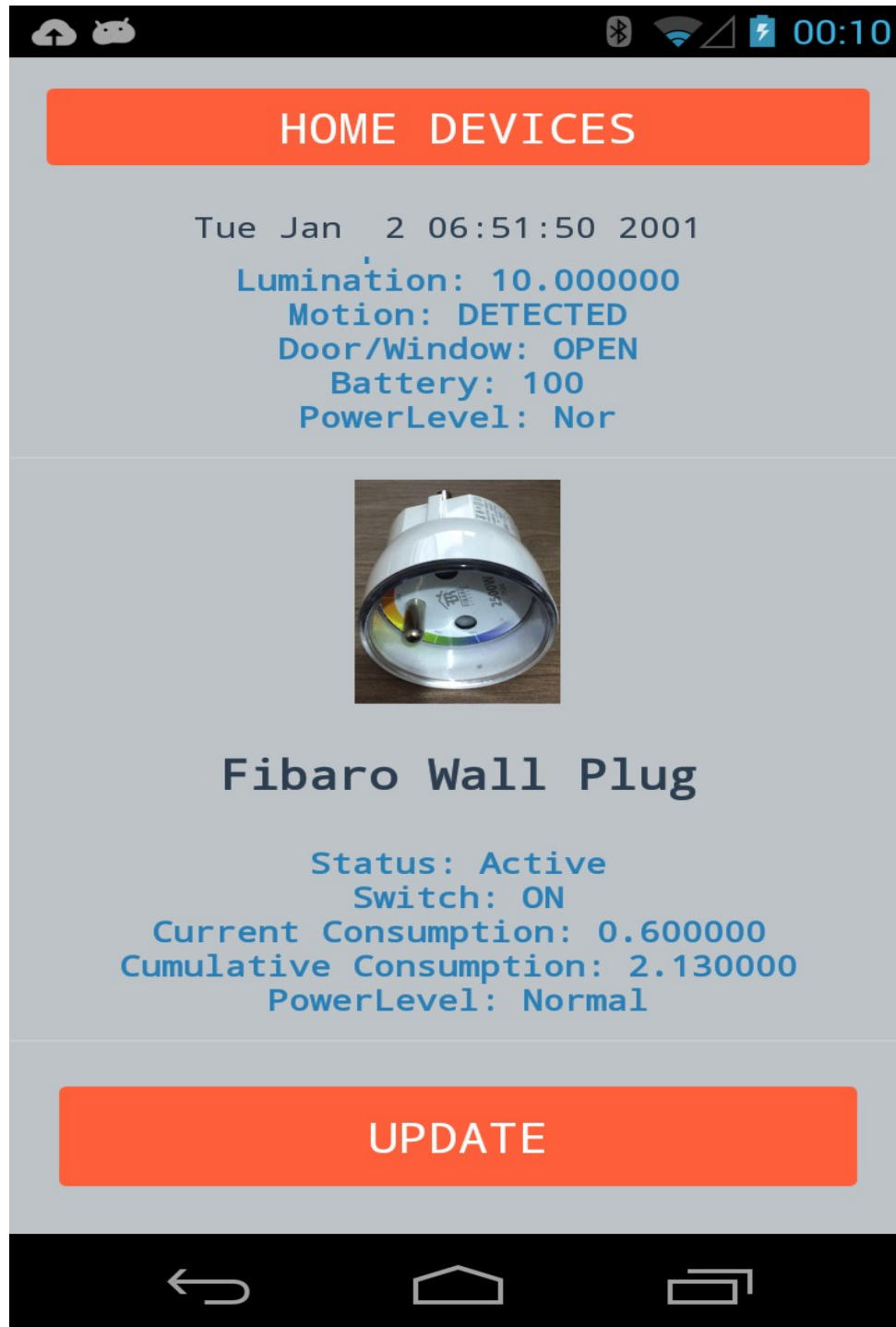




Chapter 6: Home Surveillance and Extending Security Use Cases









Chapter 8: Extending Use Cases








http://192.168.2.235:3000/ x +

192.168.2.235:3000 Search

Home Status: Tue Jan 2 03:16:58 2001

-  **SHT11 Sensor**
Status: Active, TEMPERATURE: 24.000000 Celcius, HUMIDITY: 70.000000
-  **Philio Multi-Sensor**
Status: Sleeping, TEMPERATURE: 76.000000 Fahrenheit, LUMINATION: 8.000000
MOTION is: DETECTED, DOOR/WINDOW: OPEN Battery: 100%
-  **Fibaro Wall Plug**
Status: Active
SWITCH is : ON
Current Power Consumption: 0.600000 kWh, Cumulative Energy Consumption: 2.130000 kWh
-  **Everspring Lamp Holder**
Status: Active
SWITCH is : ON
-  **Everspring Flood Detector**
Status: Sleeping
FLOOD is : NOT DETECTED
-  **MQ-9 CO Sensor**
Status: Active

Home Status: Tue Jan 2 03:21:00 2001

-  **SHT11 Sensor**
Status: Active, TEMPERATURE: 2...
-  **Philio Multi-Sensor**
Status: Sleeping, TEMPERATURE...
MOTION is: DETECTED, DOOR/W...
-  **Fibaro Wall Plug**
Status: Active
SWITCH is : ON
Current Power Consumption: 0.6...
-  **Everspring Lamp Holder**
Status: Active
SWITCH is : ON
-  **Everspring Flood Detect...**
Status: Sleeping
FLOOD is : NOT DETECTED

