



Project Details

| | |
|---|------------------------|
| Project Name | Mesh Profile subsystem |
| Product Type | Profile Subsystem |
| TCRL Version: | TCRL 2018-2 |
| Referenced Qualified Design(s) | |
| Previously Qualified Design Used in this Qualification(s) | |
| Listing Date | 2019-07-01 |
| Declaration ID | D046465 |

| | | | | | | |
|--------------------|------------------------|---------|-----------------|----------------------|--------------|---|
| Product Listing(s) | | | | | | |
| | Name | Website | Category | Publish Date | Model Number | Description |
| | Mesh Profile Subsystem | | Unique Products | 7/1/2019 12:00:00 AM | PAN1020 | The PAN1020 integrated circuit has a fully integrated radio transceiver and baseband processor for Bluetooth Low Energy. It can be used as an application processor as well as a data pump in fully hosted systems. |

| | | | | | | |
|---|--|---------------------|--|--|--|--|
| Member Company | Shanghai Panchip Microelectronics Co., Ltd | | | | | |
| Declaring Member Contact / Listing Contact Person | Name | jack zu | | | | |
| | Address | NO328 Street Xinghu | | | | |
| | City | Suzhou | | | | |
| | State | Jiangsu | | | | |
| | Country | China | | | | |
| | Postal Code | 215000 | | | | |

Complete the Project and Submit Product(s) for Qualification

By typing my name or other symbol of my signature into the "Signature" field below, I agree on behalf of Shanghai Panchip Microelectronics Co., Ltd ("Company") to [Bluetooth Launch Studio Terms of Use](#), and I make the following representations and warranties personally and on behalf of Company. The following representations and warranties, together with all project information and the [Bluetooth Launch Studio Terms of Use](#), are the Supplier Declaration of Conformity and Declaration of Compliance described in the [Program Reference Document \(PRD\)](#) and [Declaration Process Document \(DPD\)](#).

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- ☒ Company does not, by its governing documents or other applicable law, require more than one signatory, a stamp or seal, or a witnessed signature to be legally bound.
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Signature:

| |
|----------|
| Li Zemin |
|----------|

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Summary ICS

Table 21: Controller Configuration Specification Version

| | | | | | |
|------|------------|-----------|---------|--------|---------|
| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|

Table 22: EDR Features

| | | | | | |
|------|------------|-----------|---------|--------|---------|
| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|

Table 24: BR/EDR Controller Electrical Interfaces

| | | | | | |
|------|------------|-----------|---------|--------|---------|
| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|

Table 31: Host Configuration Specification Version

| | | | | | |
|------|------------|-----------|---------|--------|---------|
| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|

Table 33: Core Host Electrical Interfaces

| | | | | | |
|------|------------|-----------|---------|--------|---------|
| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|

Table 34: LE Host Specification Parts

| | | | | | |
|------|------------|-----------|---------|--------|---------|
| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|

Table 41: AMP Controller Specification Version

| | | | | | |
|------|------------|-----------|---------|--------|---------|
| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|

Table 42: AMP Controller Specification Parts

| | | | | | |
|------|------------|-----------|---------|--------|---------|
| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|

Table 43: AMP Controller Electrical Interfaces

| | | | | | |
|------|------------|-----------|---------|--------|---------|
| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|

Table 51: Low Energy Controller Configuration

| | | | | | |
|------|------------|-----------|---------|--------|---------|
| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|

Table 52: Low Energy Host Core Specification

| | | | | | |
|------|------------|-----------|---------|--------|---------|
| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|

Product Type

Table 1: Product Types

| | | | | | |
|------|------------|-----------|---------|--------|---------|
| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|

| | | | | | |
|-----|-------------------|-----|-----|-------------------------------------|--|
| 1/6 | Profile Subsystem | N/A | C.1 | <input checked="" type="checkbox"/> | C.1: Mandatory to support one and only one Product Type. |
|-----|-------------------|-----|-----|-------------------------------------|--|

Table 2: Controller Core Configuration

Prerequisite: PROD 1/1 or PROD 1/2 or PROD 1/3 or PROD 1/5

| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|
|------|------------|-----------|---------|--------|---------|

Table 3: Host Core Configuration

Prerequisite: PROD 1/1 or PROD 1/2 or PROD 1/3 or PROD 1/4

| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|
|------|------------|-----------|---------|--------|---------|

Mesh Profile

Table 0: Major Profile Version (X.Y)

| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|-------------------------------------|---------|
| 0/1 | Mesh v1.0 | [2] | M | <input checked="" type="checkbox"/> | |

Table 0a: Minor Profile Version (X.Y.Z)

| Item | Capability | Reference | Support | Status | Comment |
|------|---------------|-----------|---------|-------------------------------------|--|
| 0a/1 | Erratum 10395 | [5] | C.1 | <input checked="" type="checkbox"/> | C.1: Mandatory IF MESH 0/1 "Mesh v1.0" is supported, otherwise Excluded. |

Table 1: Bluetooth Core Specification v4.0 or Later

| Item | Capability | Reference | Support | Status | Comment |
|------|----------------------------------|-----------|---------|-------------------------------------|---------|
| 1/1 | Core Specification v4.0 or later | [1] | M | <input checked="" type="checkbox"/> | |

Table 2: Roles

| Item | Capability | Reference | Support | Status | Comment |
|------|-------------|------------|---------|-------------------------------------|--|
| 2/1 | Node | [2] 2.3.11 | C.1 | <input checked="" type="checkbox"/> | C.1: Mandatory to support at least one of 2/1 "Node" OR 2/2 "Provisioner". |
| 2/2 | Provisioner | [2] 5 | C.1 | <input checked="" type="checkbox"/> | C.1: Mandatory to support at least one of 2/1 "Node" OR 2/2 "Provisioner". |

Table 3: Node Capabilities - Bearers

Prerequisite: MESH 2/1

| Item | Capability | Reference | Support | Status | Comment |
|------|--------------------|-----------|---------|-------------------------------------|---|
| 3/1 | Advertising Bearer | [2] 3.3.1 | C.1 | <input checked="" type="checkbox"/> | C.1: Mandatory to support at least one of MESH 3/1 "Advertising Bearer " OR MESH 3/2 "GATT Bearer". |
| 3/2 | GATT Bearer | [2] 3.3.2 | C.1 | <input checked="" type="checkbox"/> | C.1: Mandatory to support at least one of MESH 3/1 "Advertising Bearer " OR MESH 3/2 "GATT Bearer". |

Table 4: Provisioning

Prerequisite: MESH 2/1

| Item | Capability | Reference | Support | Status | Comment |
|------|---|------------------|---------|-------------------------------------|--|
| 4/1 | PB-ADV | [2] 5.2.1 | C.1 | <input checked="" type="checkbox"/> | C.1: Optional IF MESH 3/1 "Advertising Bearer" is supported, otherwise Excluded. |
| 4/2 | PB-GATT | [2] 5.2.2, 6.7.1 | C.2 | <input checked="" type="checkbox"/> | C.2: Mandatory to support at least one of MESH 4/2 "PB-GATT" or MESH 12/5 "Proxy Client" IF MESH 3/2 "GATT Bearer" is supported, otherwise Excluded. |
| 4/3 | Device UUID | [2] 3.10.3 | C.3 | <input checked="" type="checkbox"/> | C.3: Mandatory IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded. |
| 4/4 | Sending Unprovisioned Device Beacon | [2] 3.9.2 | C.4 | <input checked="" type="checkbox"/> | C.4: Mandatory IF MESH 4/1 "PB-ADV" is supported, otherwise Excluded. |
| 4/5 | Generic Provisioning Layer | [2] 5.3 | C.3 | <input checked="" type="checkbox"/> | C.3: Mandatory IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded. |
| 4/6 | Provisioning Protocol (Provisioning Server) | [2] 5.4 | C.3 | <input checked="" type="checkbox"/> | C.3: Mandatory IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded. |
| 4/8 | Provisioning: Public | [2] 5.4.1.2 | C.5 | | C.5: Mandatory to support at least one of MESH 4/7 "Provisioning: Public Key OOB" OR MESH 4/8 |

| | | | | | |
|------|-------------------------------------|-------------|-----|---|--|
| | Key No OOB | | | ✓ | "Provisioning: Public Key No OOB" IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded. |
| 4/12 | Provisioning: Authentication No OOB | [2] 5.4.1.2 | C.3 | ✓ | C.3: Mandatory IF MESH 4/1 "PB-ADV" OR MESH 4/2 "PB-GATT" is supported, otherwise Excluded. |

Table 5: Node Capabilities – Network Layer

Prerequisite: MESH 2/1

| Item | Capability | Reference | Support | Status | Comment |
|------|---|----------------------|---------|--------|--|
| 5/1 | Transmitting and Receiving Secured Network Layer Messages | [2] 3.4.6.2, 3.4.6.3 | M | ✓ | |
| 5/2 | Relay Feature | [2] 3.4.6.1 | C.1 | ✓ | C.1: Optional IF MESH 3/1 "Advertising Bearer" is supported, otherwise Excluded. |
| 5/3 | Network Message Cache | [2] 3.4.6.4 | C.2 | ✓ | C.2: Mandatory IF MESH 5/2 "Relay Feature" is supported, otherwise Excluded. |

Table 6: Node Capabilities – Lower Transport Layer

Prerequisite: MESH 2/1

| Item | Capability | Reference | Support | Status | Comment |
|------|--|----------------------|---------|--------|---------|
| 6/1 | Transmitting and Receiving a Lower Transport PDU | [2] 3.5.4.1, 3.5.4.2 | M | ✓ | |
| 6/2 | Segmentation and Reassembly Behavior | [2] 3.5.3.3, 3.5.3.4 | M | ✓ | |

Table 7: Upper Transport Layer

Prerequisite: MESH 2/1

| Item | Capability | Reference | Support | Status | Comment |
|------|---|-------------|---------|--------|---------|
| 7/1 | Transmitting a Secured Access Payload | [2] 3.6.4.1 | M | ✓ | |
| 7/2 | Receiving a Secured Upper Transport PDU | [2] 3.6.4.2 | M | ✓ | |
| 7/5 | Heartbeat | [2] 3.6.7 | M | ✓ | |

Table 8: Node Capabilities – Access Layer

Prerequisite: MESH 2/1

| Item | Capability | Reference | Support | Status | Comment |
|------|--|-------------|---------|--------|---------|
| 8/1 | Transmitting and Receiving an Access Layer Message | [2] 3.7.4.1 | M | ✓ | |

Table 9: Node Capabilities – Security

Prerequisite: MESH 2/1

| Item | Capability | Reference | Support | Status | Comment |
|------|---------------------------|-----------|---------|--------|---------|
| 9/1 | Message Replay Protection | [2] 3.8.7 | M | ✓ | |

Table 10: Node Capabilities – Mesh Management

Prerequisite: MESH 2/1

| Item | Capability | Reference | Support | Status | Comment |
|------|-----------------------------|------------|---------|--------|---------|
| 10/1 | Secure Network Beacon | [2] 3.9.3 | M | ✓ | |
| 10/2 | Key Refresh Procedure | [2] 3.10.4 | M | ✓ | |
| 10/3 | IV Update Procedure | [2] 3.10.5 | M | ✓ | |
| 10/4 | IV Index Recovery Procedure | [2] 3.10.6 | M | ✓ | |

Table 11: Node Capabilities – Foundation Mesh Models

Prerequisite: MESH 2/1

| Item | Capability | Reference | Support | Status | Comment |
|------|----------------------------|-----------|---------|--------|---------|
| 11/1 | Configuration Server Model | [2] 4.4.1 | M | ✓ | |
| 11/2 | Health Server Model | [2] 4.4.3 | M | ✓ | |

Table 12: Node Capabilities – Proxy

| Item | Capability | Reference | Support | Status | Comment |
|------|--------------------------------|---------------|---------|--------|--|
| 12/1 | Proxy Server | [2] 6.2, 6.6 | C.1 | ☑ | C.1: Optional IF MESH 3/1 “Advertising Bearer” is supported, otherwise Excluded. |
| 12/2 | GATT Server | [3] GATT 1/2 | C.2 | ☑ | C.2: Mandatory IF MESH 12/1 “Proxy Server” OR MESH 4/2 “PB-GATT” is supported, otherwise Excluded. |
| 12/3 | Advertising with Network ID | [2] 7.2.2.2.2 | C.2 | ☑ | C.2: Mandatory IF MESH 12/1 “Proxy Server” OR MESH 4/2 “PB-GATT” is supported, otherwise Excluded. |
| 12/4 | Advertising with Node Identity | [2] 7.2.2.2.3 | C.2 | ☑ | C.2: Mandatory IF MESH 12/1 “Proxy Server” OR MESH 4/2 “PB-GATT” is supported, otherwise Excluded. |

Table 13: Mesh GATT Services

Prerequisite: MESH 12/2

| Item | Capability | Reference | Support | Status | Comment |
|------|---------------------------|-----------|---------|--------|--|
| 13/1 | Mesh Provisioning Service | [2] 7.1 | C.1 | ☑ | C.1: Mandatory IF MESH 4/2 “PB-GATT” is supported, otherwise Excluded. |
| 13/2 | Mesh Proxy Service | [2] 7.2 | C.2 | ☑ | C.2: Mandatory IF MESH 12/1 “Proxy Server” is supported, otherwise Excluded. |

Table 14: GATT Server Requirements

Prerequisite: MESH 12/2

| Item | Capability | Reference | Support | Status | Comment |
|------|---|---------------|---------|--------|---------|
| 14/1 | Discover All Primary Services | [3] GATT 4M/2 | M | ☑ | |
| 14/2 | Discover Primary Services by Service UUID | [3] GATT 4/3 | M | ☑ | |
| 14/3 | Write without Response | [3] GATT 4/12 | M | ☑ | |
| 14/4 | Notifications | [3] GATT 4/17 | M | ☑ | |
| 14/5 | Write Characteristic Descriptors | [3] GATT 4/21 | M | ☑ | |

Table 15: GATT Client Requirements

Prerequisite: MESH 12/6

| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|
|------|------------|-----------|---------|--------|---------|

Table 16: GAP Requirements

| Item | Capability | Reference | Support | Status | Comment |
|------|------------------------------|--|---------|--------|--|
| 16/1 | Broadcaster | [2] 3.3.1 [4] GAP 5/1 OR GAP 38/1 | C.1 | ☑ | C.1: Mandatory IF MESH 3/1 “Advertising Bearer” is supported, otherwise Excluded. |
| 16/2 | Observer | [2] 3.3.1 [4] GAP 5/2 OR GAP 38/2 | C.1 | ☑ | C.1: Mandatory IF MESH 3/1 “Advertising Bearer” is supported, otherwise Excluded. |
| 16/3 | Peripheral | [2] 3.3.2, 7.1.1, 7.2.1, 7.2.2.2.1 [4] GAP 5/3 OR GAP 38/3 | C.2 | ☑ | C.2: Mandatory IF MESH 12/1 “Proxy Server” OR MESH 4/2 “PB-GATT” is supported, otherwise Excluded. |
| 16/4 | Peripheral – Security Mode 1 | [4] GAP 25/4 | C.2 | ☑ | C.2: Mandatory IF MESH 12/1 “Proxy Server” OR MESH 4/2 “PB-GATT” is supported, otherwise Excluded. |

Table 17: Provisioner – Bearers

Prerequisite: MESH 2/2

| Item | Capability | Reference | Support | Status | Comment |
|------|--------------------|-----------|---------|--------|--|
| 17/1 | Advertising Bearer | [2] 3.3.1 | C.1 | ☑ | C.1: Mandatory to support at least one of the 17/1 “Advertising Bearer” OR 17/2 “GATT Bearer”. |

Table 18: Provisioner – Provisioning

Prerequisite: MESH 2/2

| Item | Capability | Reference | Support | Status | Comment |
|------|---------------------------------------|-----------|---------|--------|---|
| 18/1 | Receiving Unprovisioned Device Beacon | [2] 3.9.2 | C.1 | ☑ | C.1: Mandatory to support IF MESH 17/1 “Advertising bearer” is supported, otherwise Excluded. |
| 18/2 | PB-ADV | [2] 5.2.1 | C.1 | ☑ | C.1: Mandatory to support IF MESH 17/1 “Advertising bearer” is supported, |

| | | | | | |
|---------------------|---|--------------------|---|---|--|
| otherwise Excluded. | | | | | |
| 18/3 | Generic Provisioning Layer | [2] 5.3 | M | ✓ | |
| 18/4 | Provisioning Protocol (Provisioning Client) | [2] 5.4 | M | ✓ | |
| 18/7 | Provisioning: Public Key OOB | [2] 5.4.1.2 | M | ✓ | |
| 18/8 | Provisioning: Public Key No OOB | [2] 5.4.1.2 | M | ✓ | |
| 18/9 | Provisioning: Authentication Output OOB | [2] 5.4.1.2 | M | ✓ | |
| 18/10 | Provisioning: Authentication Input OOB | [2] 5.4.1.2 | M | ✓ | |
| 18/11 | Provisioning: Authentication Static or No OOB | [2] 5.4.1.2, 5.4.3 | M | ✓ | |

Table 19: Provisioner – Mesh Management

Prerequisite: MESH 2/2

| Item | Capability | Reference | Support | Status | Comment |
|------|---------------------------------|-----------|---------|--------|---------|
| 19/1 | Receiving Secure Network Beacon | [2] 2.9.3 | M | ✓ | |

Table 20: GATT Client Requirements

Prerequisite: MESH 18/6

| Item | Capability | Reference | Support | Status | Comment |
|------|------------|-----------|---------|--------|---------|
|------|------------|-----------|---------|--------|---------|

Table 21: GAP Requirements

Prerequisite: MESH 2/2

| Item | Capability | Reference | Support | Status | Comment |
|------|-------------|-----------------------------------|---------|--------|--|
| 21/1 | Broadcaster | [2] 3.3.1 [4] GAP 5/1 OR GAP 38/1 | C.1 | ✓ | C.1: Mandatory IF MESH 17/1 "Advertising Bearer" is supported, otherwise Excluded. |
| 21/2 | Observer | [2] 3.3.1 [4] GAP 5/2 OR GAP 38/2 | C.1 | ✓ | C.1: Mandatory IF MESH 17/1 "Advertising Bearer" is supported, otherwise Excluded. |