

**NEW  
PRODUCT**

**IoT PLC Module**

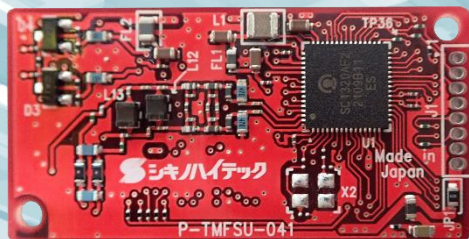
**The 4th Generation PLC Equipped**

**P-TMFSU-041**

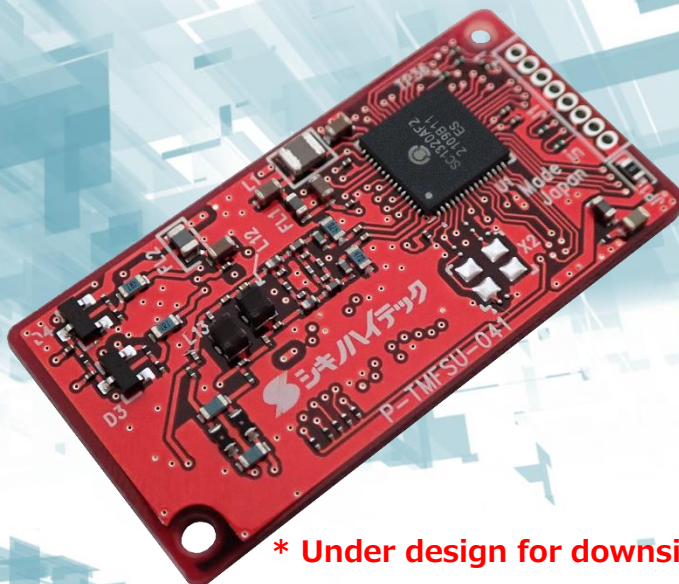
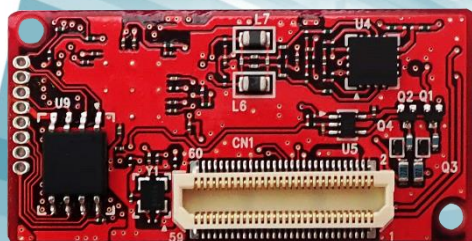
**<IoT PLC Module>**

**～ IEEE1901-2020 Compliance "HD-PLC™" ～**

**Top side**



**Back side**



**\* Under design for downsizing**

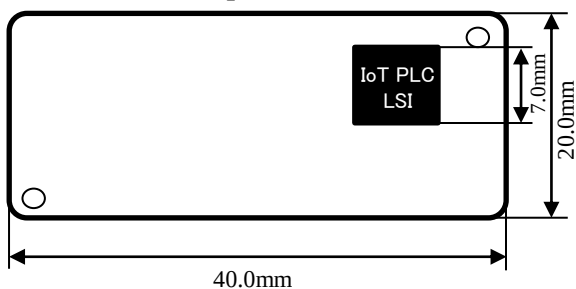
**P-TMFSU-041**

**[Features]** Socionext Inc.'s SC1320A, the world's first IC that uses the 4th generation of HD-PLC, an IEEE 1901-2020 compliant semiconductor design IP core, is mounted.

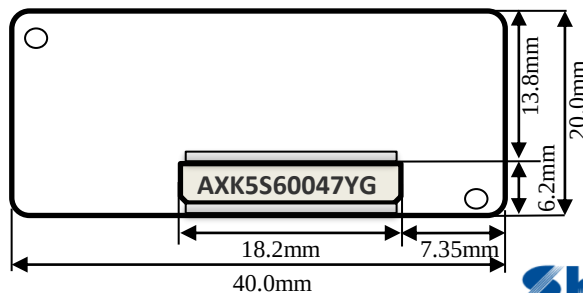
| Item                                      |                     | Detail                                              |
|-------------------------------------------|---------------------|-----------------------------------------------------|
| Module size                               |                     | 40.0mm * 20.0mm Height 5.9mm                        |
| Leased line<br>Coaxial line<br>Power line | Frequency range     | 2MHz～28MHz                                          |
|                                           | Transmission method | WaveletOFDM                                         |
|                                           | PHY speed           | Maximum 250Mbps                                     |
|                                           | Access method       | CSMA／CA                                             |
| Ethernet<br>RMII Interface                | Communication speed | Multi-hop (UDP) Maximum 90Mbps (TCP) Maximum 45Mbps |
| RS-485                                    |                     | Correspondence                                      |
| Communication range (10 hop)              |                     | 10Km (1/4 mode)                                     |
| Power supply voltage                      |                     | 12V、3.3V                                            |
| Power consumption                         |                     | TBD                                                 |

**[External Dimensions]**

**Top side**



**Back side**

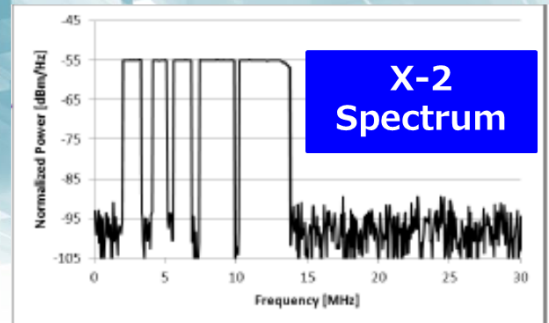
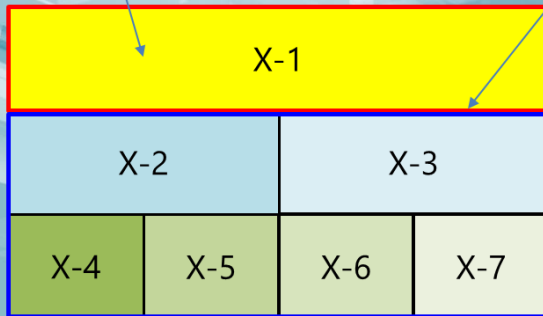


## [Long Distance mode]

IEEE1901-2010

IEEE1901-2020

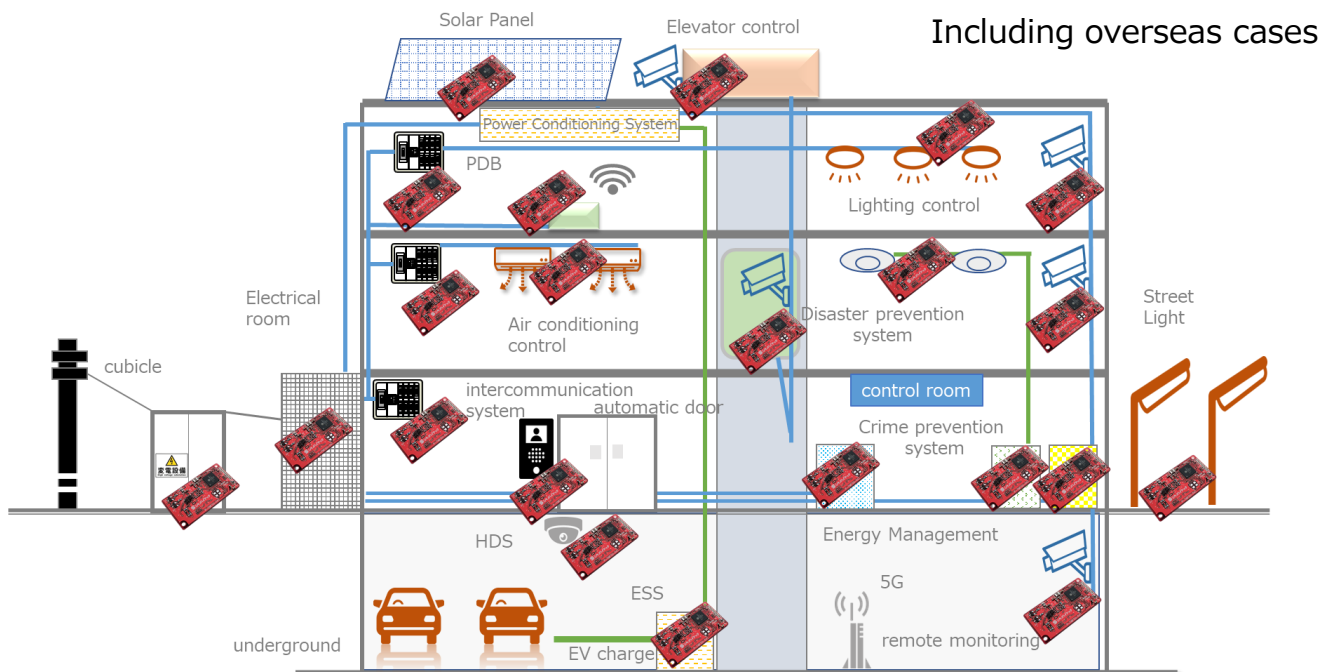
Mode for long distance



31.25MHz

Relationship between mode and frequency band

## [Application Cases]



For any inquiries, please feel free to contact below.

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