Simple and Easy
Network Technology

C4Line

" *Right Time*
Right Solution "

- C4Line Co.

Contents

1.1 C4Line Company

C4Line established the Ethernet extension & Wireless Communication Division to offer Coax, UTP, 2Wire and Wireless communication technology based on security products for the residential & industrial place.

C4Line is focused on key market, leveraging its innovative products to meet the increasing demand for residential & industrial place security network solution through resellers and distributors in each area.
Our goal is to help build a better world through innovative products for the right time and place.
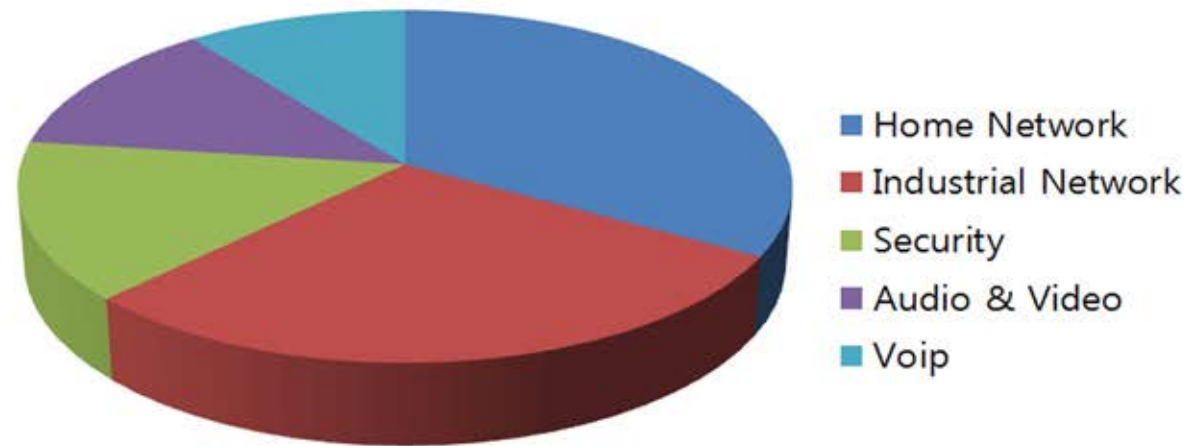
1.2 Milestone

2004.1.12 - Founded C4Line corporation

2005.1   - Commercial Launch of Home Plug 1.0 (14Mbps) PLC product
         - Exhibited in CES 2005 Showcase

2005.5   - Started exportation to the Republic of China

2005.5   - UL, FCC Certificated for C4L5200-ETH, C4L5200-USB

2005.6   - Exhibited PLC products in KOREA SMART HOME & NETWORK SHOW

2005.8   - Started exportation to United State of America.
         - Participated in MIC Certification provisions under management of Ministry of
           information & communication

2006.1   - MIC Certificated for C4L5200-ETH, C4L5200-USB

2006.2   - R&D Project with Samsung Electronics for IP Camera + PLC Module for electric frame
           bundle package products for export.

2006.3   - Provided PLC (C4L5200-ETH) in Hanaro Telecom VOD service launching program
         - Completed development of PCI Type, Y-cable Type PLC

2006.10   - Exhibited in WPC Tokyo 2006 Showcase
         - Completed HomePlug AV(200M) PLC/Coax Hybrid PLC

2007. 1   - UL, FCC, CE Certificated for PLC module of IP Camera to provide to the Securitas
           Direct which is a leader company in security industry field

2007.6~12 - R&D project with KT BCN lab.(HomePlug AV based PLC used to verify the quality of
           QoS for IPTV & VOIP network in Home using SNMP protocol with development of
           RG(Residential Gateway) and Remote Monitoring Program.

2008.2   - Made MOU for OEM PLC business and provide PLCs.

2007.7   - Had annual based order for PLC from Securitas Direct Security group in Spain

2008.10   - Commercial Launch of Wireless Gigabit Router (C4L7000-WGR)

2010.1	- Exhibited in CES 2010 SHOWCASE (PLC & Wi-Fi products)
2010. 6	- Comepleted HomePlug AV Technology based Ethernet over Coax (EoC) and Ethernet Extender units. (EoC : C4L6400 – EoC / ETH. Extender : C4L6400 - TWP)
2011.3	- Export the large quantity of IP Ethernet over Coax product to North America
2012.6	- Export the IP Ethernet over Coax and IP Ethernet over UTP products to Australia and New Zealand
2012.11	- Export the IP Ethernet over Coax and IP Ethernet over UTP products to Germany
2013.8	- Export the IP Ethernet over 2Wire products to European country
2014.10	- Develop the New IP Ethernet over 2Wire product
2014.12	- Develop the USB Powered IP Ethernet over Coax/UTP/2Wire products
2015. 3	- Develop the New Terminal Block IP Ethernet over 2Wire product
2015. 6	- Develop the New IP Ethernet over VoiP line product
2015. 8	- Develop the New USB Powered IP Ethernet over Dual Port 2Wire product
2016. 3	- Develop the New Industrial Temperature range IP Ethernet over Coax / UTP / 2Wire product
2016. 9	- Develop the New Slim long type of IP Ethernet over Coax / UTP / 2Wire product
2017. 6	- Develop the New Low profile type of IP Ethernet over Coax / UTP / 2Wire product
2017. 10	- Develop the New 1.2 Gigabit IP Ethernet over Coax / UTP / 2Wire product
2018. 1	- Develop the New Compact size IP Ethernet over Coax / UTP / 2Wire product
2018. 4	- Develop the New Wall Mounted IP Ethernet over 2Wire product
2018. 6	- Exhibited in CEBIT 2019 in Hannover Germany
2020. 2	- Develop the New 1.2 Gigabit IP Ethernet over 2Wire / UTP product
2021. 3	- Develop the New 2 Gigabit IP Ethernet over 2Wire / UTP/ Coax product
2021. 6	- Develop the New 100 Mbps IP Ethernet over 2Wire product

1.3 Business Sector

C4Line Business Sector

Legend:
- Home Network
- Industrial Network
- Security
- Audio & Video
- Voip

C4Line provide the IP network solution in various network industry fields.
We are focusing on the Residential and Industrial Network field for the future business.
We will develop the Wired & Wireless Residential Automation and Network solution and product.
Also, C4Line have the robust and innovative IP security networking product in the IP security transmission field.
C4Line's IP Extender products have a great field reputation in the IP security transmission fields.
For the Audio and Video market, we are focusing the High Definition and Quality AV IP transmission solution.
The Voip migration requirements are increasing in the IP telephone market.
So, we will use the legacy analog wire, two wire and UTP wire IP Solution for the Voip migration market.

1.1 Gigabit Product

Product Application

AV Network, Data Network, Home Network
Surveillance Network, Voip Network,
IPTV Network, Wi-Fi Network

C4L2000G-TWP-P
Product Features

- High data rate - Up to 2Gbps

- Using Legacy & New UTP cables
  for AV Device, IP Networking, Game Console
  and IP Surveillance application

- One Master extender can support up to
  Multiple Slave extender using UTP 1:2 splitter

- Long range Ethernet data extension over UTP
  Max. 2,296 ft. (700m)

- Automatic Quality of Service (QoS) features
  for seamless network streaming

- IEEE 802.3 af/at Compliant PoE for PoE
  Powered Device(PD), Wi-Fi AP, IP camera, VoiP

- Easy configuration and No IP address &
  network setup required

- Limited lifetime warranty – OEM/ODM Reference
  for MTBF Certification

- LED indicator for installation – Power, Link and
  Data traffic status

- Compact size extender – fits inside most network

C4Line

1.1 Gigabit Product

Product Application

AV Network, Data Network, Home Network Surveillance Network, Voip Network, IPTV Network, Wi-Fi Network

C4L2000G-2W-P
Product Features

- *High data rate - Up to 2Gbps*

- *Using Legacy & New 2Wire & UTP cables for AV Device, IP Networking, Game Console and IP Surveillance application*

- *One Master extender can support up to Multiple Slave extender using 1:2 bridged wire*

- *Long range Ethernet data extension over 2Wire Max. 2,296 ft. (700m)*

- *Automatic Quality of Service (QoS) features for seamless network streaming*

- *IEEE 802.3 af/at Compliant PoE for PoE Powered Device(PD), Wi-Fi AP, IP camera, VoiP*

- *Easy configuration and No IP address & network setup required*

- *Limited lifetime warranty – OEM/ODM Reference for MTBF Certification*

- *LED indicator for installation – Power, Link and Data traffic status*

- *Compact size extender – fits inside most network*

1.1 Gigabit Product

Product Application

AV Network, Data Network, Home Network
Surveillance Network, Voip Network,
IPTV Network, Wi-Fi Network

C4L2000G-EoC-P
Product Features

- High data rate - Up to 2Gbps

- Using Legacy & New Coax cables
  for AV Device, IP Networking, Game Console
  and IP Surveillance application

- One Master extender can support up to
  Multiple Slave extender using BNC T Splitter

- Long range Ethernet data extension over Coax
  Max. 3,280 ft. (1,000m)

- Automatic Quality of Service (QoS) features
  for seamless network streaming

- IEEE 802.3 af/at Compliant PoE for PoE
  Powered Device(PD), Wi-Fi AP, IP camera, VoiP

- Easy configuration and No IP address &
  network setup required

- Limited lifetime warranty – OEM/ODM Reference
  for MTBF Certification

- LED indicator for installation – Power, Link and
  Data traffic status

- Compact size extender – fits inside most network

1.1 Gigabit Product

Product Application

AV Network, Data Network, Home Network
Surveillance Network, Voip Network,
IPTV Network, Wi-Fi Network

C4L1200G-TWP-P
Product Features

- High data rate - Up to 1.2Gbps

- Using Legacy & New UTP cables
  for AV Device, IP Networking, Game Console
  and IP Surveillance application

- One Master extender can support up to
  Multiple Slave extender using UTP 1:2 splitter

- Long range Ethernet data extension over UTP
  Max. 1,640 ft. (500m)

- Automatic Quality of Service (QoS) features
  for seamless network streaming

- Compatible with C4L6400 series (200Mbps)
  products

- IEEE 802.3 af/at Compliant PoE for PoE
  Powered Device(PD), Wi-Fi AP, IP camera, VoiP

- Easy configuration and No IP address &
  network setup required

- Limited lifetime warranty – OEM/ODM Reference
  for MTBF Certification

- LED indicator for installation – Power, Link and
  Data traffic status

- Compact size extender – fits inside most network

C4Line

1.1 Gigabit Product

Product Application

AV Network, Data Network, Home Network
Surveillance Network, Voip Network,
IPTV Network, Wi-Fi Network

C4L1200G-2W-P
Product Features

- High data rate - Up to 1.2Gbps (With Boost Port)

- Using Legacy & New 2Wire cables
  for AV Device, IP Networking, Game Console
  and IP Surveillance application

- One Master extender can support up to
  Multiple Slave extender using bridge the two / three wires

- Long range Ethernet data extension over 2Wire, 3Wire
  Max. 1,312 ft. (400m)

- Automatic Quality of Service (QoS) features
  for seamless network streaming

- Compatible with C4L6400 series (200Mbps)
  products

- IEEE 802.3 af/at Compliant PoE for PoE
  Powered Device(PD), Wi-Fi AP, IP camera, VoiP

- Easy configuration and No IP address &
  network setup required

- Limited lifetime warranty – OEM/ODM Reference
  for MTBF Certification

- LED indicator for installation – Power, Link and
  Data traffic status

- Compact size extender – fits inside most network
  enclosures

1.2 Fast Ethernet (10/100 Mbps) Product

1. C4L6400WL-2W (Wall Mounted IP Ethernet over 2Wire Transceiver)

- Wall Mounted IP Ethernet over 2Wire (Eo2) Transceiver
- Wall Mounted style installation for Household, Residential and Large Building
- Simple installation Wall Mounted Bracket
- Up to 4 Slave unit per 1 Master unit (Extremely Cost Saving)
- Support 1,000 ft. (300m) 2Wire network coverage
- Up to 200 Mbit/s (PHY Layer) / 94 Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation

2. C4L6400WL-2W-P (Wall Mounted PoE over 2Wire Transceiver)

- Wall Mounted PoE over 2Wire (Eo2) Transceiver
- Wall Mounted style installation for Household, Residential and Large Building
- Simple installation Wall Mounted Bracket
- Up to 4 Slave unit per 1 Master unit (Extremely Cost Saving)
- Support 1,000 ft. (300m) 2Wire network coverage
- Up to 200 Mbit/s (PHY Layer) / 94 Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation
- Support IEEE 802.3 af/at 40Watt Port or Static PoE through

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1.2 Fast Ethernet (10/100 Mbps) Product

1. C4L6400M-2W (Mini Size IP Ethernet over 2Wire Transceiver)

- Miniature size Ethernet over 2Wire (Eo2) IP Transceiver
  (26 x 42 x 70 mm Miniature Size)
- Anti-Vibration Terminal Block Feature for Harsh Installation Sites
- Up to 4 Slave unit per 1 Master unit (Extremely Cost Saving)
- Support 1,000 ft. (300m) 2Wire network coverage
- Up to 200 Mbit/s (PHY Layer) / 94 Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation

2. C4L6400M-2W-P (Mini Size PoE over 2Wire Transceiver)

- Compact size Ethernet over 2Wire (Eo2) IP Transceiver
  (26 x 42 x 70 mm Miniature Size)
- Anti-Vibration Terminal Block Feature for Harsh Installation Sites
- Up to 4 Slave unit per 1 Master unit (Extremely Cost Saving)
- Support 1,000 ft. (300m) 2Wire network coverage
- Up to 200 Mbit/s (PHY Layer) / 94 Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation
- Support IEEE 802.3 af/at 40Watt Port OR Static PoE through
  4&5 and 7&8 Ethernet pins (OEM / ODM requirement)

1.2 Fast Ethernet (10/100 Mbps) Product

3. C4L6400-EoC (IP Ethernet over Coax Transceiver)

- Compact size Ethernet over Coax (EoC) IP Transceiver
- Support Point to Multi-Point IP network with BNC T adapter
- Up to 4 Slave unit per 1 Master unit (Extremely Cost Saving)
- Support 5,000 ft. (1,500m) coaxial network coverage
- Up to 200 Mbit/s (PHY Layer) / 94 Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation

4. C4L6400-EoC-P (PoE over Coax Transceiver)

- Compact size Ethernet over Coax (EoC) IP Transceiver
- Support Point to Multi-Point IP network with BNC T adapter
- Up to 4 Slave unit per 1 Master unit (Extremely Cost Saving)
- Support 5,000 ft. (1,500m) coaxial network coverage
- Up to 200 Mbit/s (PHY Layer) / 94 Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation
- Support IEEE 802.3 af/at 40Watt Port OR Static PoE through 4&5 and 7&8 Ethernet pins (OEM / ODM requirement)

1.2 Fast Ethernet (10/100 Mbps) Product

5. C4L6400-TWP (IP Ethernet over UTP Transceiver)

- Compact size Ethernet extender over UTP IP Transceiver
- Support Point to Multi-Point IP network with UTP 1:2 splitter
- Up to 4 Slave unit per 1 Master unit (Extremely Cost Saving)
- Support Cat 5. and Cat 6. or 2 wire (Similar) cable
- Support 1,640 ft. (500m) UTP network coverage
- Up to 200 Mbit/s (PHY Layer) / 94Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation

6. C4L6400-TWP-P (PoE over UTP Transceiver)

- Compact size Ethernet extender over UTP IP Transceiver
- Support Point to Multi-Point IP network with UTP 1:2 splitter
- Up to 4 Slave unit per 1 Master unit (Extremely Cost Saving)
- Support Cat 5. and Cat 6. or 2 wire (Similar) cable
- Support 1,640 ft. (500m) UTP network coverage
- Up to 200 Mbit/s (PHY Layer) / 94Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation
- Support IEEE 802.3 af/at 40 Watt PoE OR Static PoE through 4&5 and 7&8 Ethernet pins (OEM / ODM requirement)

1.2 Fast Ethernet (10/100 Mbps) Product

7. C4L6400-2W (IP Ethernet over 2Wire Transceiver)

- Anti-Vibration Terminal Block Feature
- Compact size Ethernet over 2Wire IP Transceiver
- Support Point to Multi-Point IP network
- Up to 4 Slave unit per 1 Master unit (Extremely Cost Saving)
- Support 1,000 ft. (300m) 2Wire network coverage
- Up to 200 Mbit/s (PHY Layer) / 94Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation
- Easy to Use for IP Intercom and VOIP installation

8. C4L6400-2W-P (PoE over 2Wire Transceiver)

- Anti-Vibration Terminal Block Feature
- Compact size Ethernet over 2Wire IP Transceiver
- Support Point to Multi-Point IP network
- Up to 4 slave unit per 1 Master unit (Extremely Cost Saving)
- Support 1,000 ft. (300m) 2Wire network coverage
- Up to 200 Mbit/s (PHY Layer) / 94Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation
- Easy to Use for IP Intercom and VOIP installation
- Support IEEE 802.3 af/at 40 Watt PoE OR Static PoE through 4&5 and 7&8 Ethernet pins (OEM / ODM requirement)

1.2 Fast Ethernet (10/100 Mbps) Product

9. C4L6400-2W-U (USB Powered IP Ethernet over 2Wire Transceiver)

- Anti-Vibration Terminal Block Feature
- Compact size Ethernet over 2Wire IP Transceiver
- Support Point to Multi-Point IP network
- Up to 4 slave unit per 1 Master unit (Extremely Cost Saving)
- Support 1,000 ft. (300m) 2Wire network coverage
- Up to 200 Mbit/s (PHY Layer) / 94Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation
- USB Power supply (Not needed the AC/DC Power Supply)

10. C4L6400-2W-U-D (USB Powered IP Ethernet over Dual Port 2Wire Transceiver)

- Anti-Vibration Terminal Block Feature
- One master extender can support Two slave extender without any splitter
- Compact size Ethernet over 2Wire IP Transceiver
- Support Point to Multi-Point IP network
- Up to 4 Slave unit per 1 Master unit (Extremely Cost Saving)
- Support 1,000 ft. (300m) 2Wire network coverage
- Up to 200 Mbit/s (PHY Layer) / 94Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation
- USB Power supply (Not needed the AC/DC Power Supply)

1.3 Other Product

13. C4L6400-USB-TWP (USB Interface over Copper wire IP Extender)
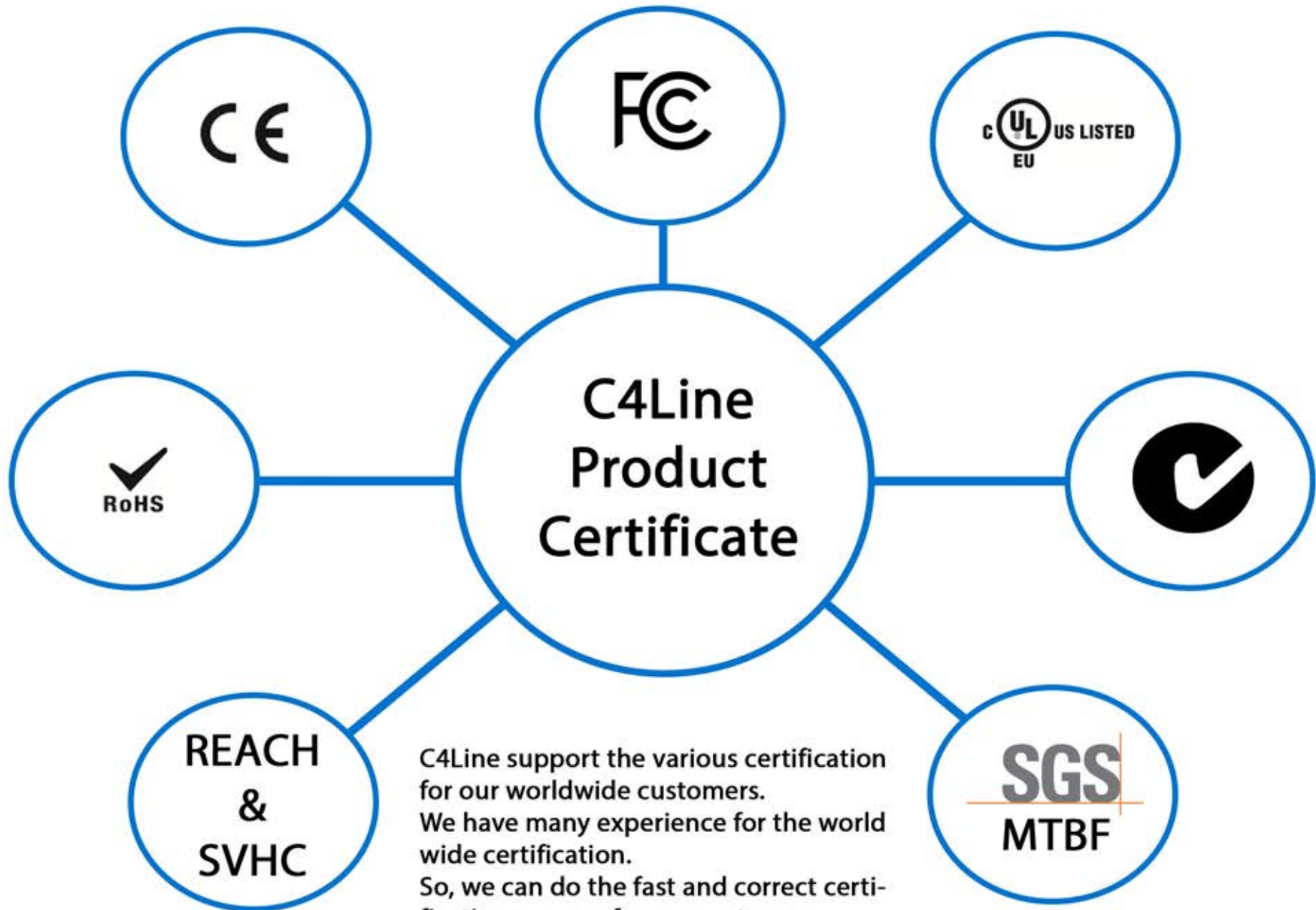

- Compact size USB Interface over Copper wire IP Extender
- Support USB 1.1 and USB 2.0 Interface
- Support Point to Multi-Point IP network with UTP 1:2 splitter or HUB switch
- Up to 4 Slave unit per 1 Master unit (Extremely Cost Saving)
- Support Cat 5. and Cat 6. or 2 Wire (Similar) cable
- Support 1,970 ft. (600m) UTP network coverage
- Up to 200 Mbit/s (PHY Layer) / 90Mbit/s (UDP Protocol) speed
- 128 bit AES encryption with key management
- PLUG & PLAY installation
- USB Power Supply - No Extra AC/DC adapter and No AC outlet are required

14. C4L6400-DIN (C4L6400 Series Din Rail Mounter)

- Compatible with all of C4L6400 Series product
- 35mm Din Rail Clip
- Aluminum Panel and Din Rail Clip
- Aluminum Sanding and Silver Anodized product
- RoHS Compliant
- Easy screw installation with C4L6400 product

C4Line Product Certificate

CE

FC

c(UL)us LISTED EU

RoHS ✓

REACH & SVHC

SGS MTBF

C4Line support the various certification for our worldwide customers.
We have many experience for the world wide certification.
So, we can do the fast and correct certification process for our customers.

Thank you!

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