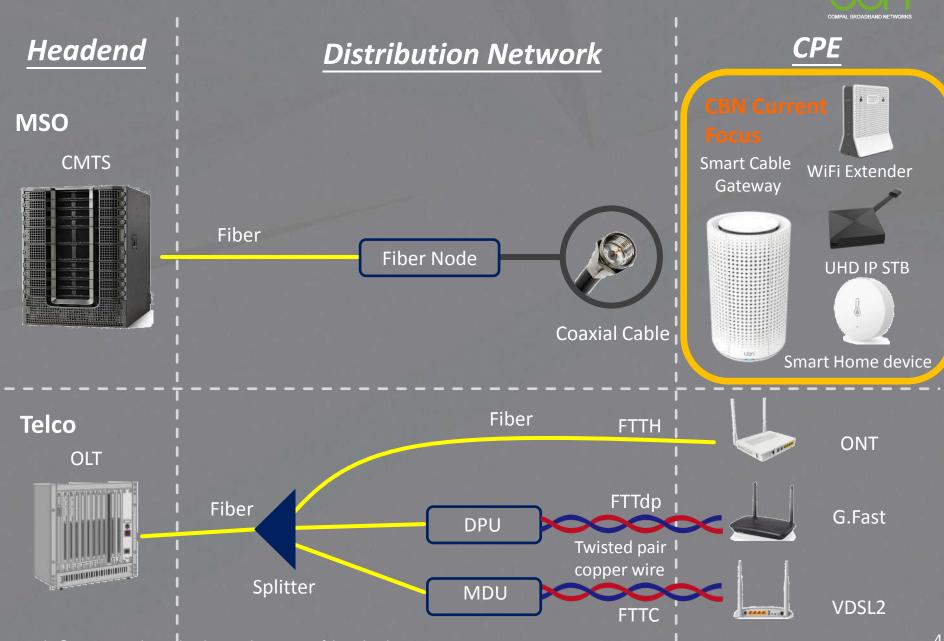






CBN Current Focus



Company Introduction



Established	August 19 th , 2009
Chairman of Board	Mr. Martin Wong
Chief Executive Officer	Mr. Alex Wang
Headquarter	13F-1, No.1, Taiyuan 1st St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)
Capital	NT\$605,714,810
Main Product Line	Smart cable gateway, Wi-Fi extenders , UHD IP-STB (4K/8K), Smart home devices
Number of Employees	161 Headcounts (as September 2018)









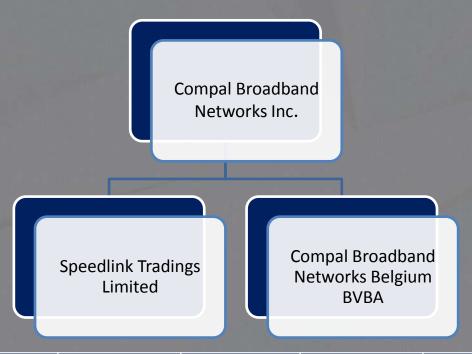






Subsidiaries





Company	Location	Capital	Shareholding	Function
Speedlink Tradings Limited	British Virgin Islands	USD 50,000	100%	Import and export trading
Compal Broadband Networks Belgium BVBA	Belgium	EUR 200,300	100%	Import and export trading, technical support, local customer service

Board Member



Position	Name	Academic/Experience		
Chairman	Mr. Martin Wong	MBA, National Chiao Tung University CEO of Compal Electronics, Inc.		
Director	Mr. Ray Chen	BA EE, National Cheng Kung University Vice Chairman of Compal Electronics, Inc.		
Director	Mr. Alex Wang	BA Computer Science, University of Massachusetts CEO of Compal Broandband Networks, Inc.		
Director	Mr. Jonson Tsai	MS EE, National Taiwan University Vice President of Realtek Semiconductor Corporation		
Independent Director	Mr. Jim Wong	MBA, Emory University Global President of Acer Incorporated		
Independent Director	Mr. Vincent Mao	MS EE, Nation Cheng Kung University Chairman of Sitronix Technology Corporation		
Independent Director	Ms. Miao-Ling Chen	PhD Business Administration, Keio University Professor of National Sun Yat-sen University, Finance Department		

[•] The audit committee and the compensation committee consist of all independent directors

Company Milestone





Aug 19, 2009











CBN Established

8x4 Wi-Fi Smart cable gateway launched

1.CBN first DOCSIS3.0

2.Setup Netherland logistics center

1.Established call center in Turkey

2.Launched DBC DOCSIS3.0 8x4 Wi-Fi smart cable gateway in Germany

1.Awarded by global No.1 MSO DOCSIS3.0 24x8 Wi-Fi Smart Cable Gateway project

2.Launched FHD IP-STB

1.Launched DOCSIS3.0 24x8 Wi-Fi Smart cable gateway for global No.1 MSO 2.Established CBN

Belgium BVBA

CBN DOCSIS3.1 Smart cable gateway Cablelabs CW121 certified

2009 2010 2011 2018 2012 2013 2014 2015 2016 2017

> 1.CBN acquired **Motorola EMEA** Cable CPE business

2."CBN " brand launched to **EMEA MSO**



1. First in market CBN DOCSIS3.0 8x4 DBC Wi-Fi smart cable gateway in Belgium







Launched worldwide smallest DOCSIS3.0 16x4 Wi-Fi Smart cable gateway in Sweden



1.Developed **DOCSIS3.1 8x8 11ac** Wi-Fi Smart Cable Gateway

- 2.Setup CBN office in USA
- 3.Setup EU repair











Global Facilities





Brussels, Belgium

CBN Belgium BVBA

Import and export
Trading, FAE,
Customer service



CBN Headquarter

Sales, Marketing, Engineering, Operation, Quality, Finance, HR





Philadelphia, USA

CBN US Region Office

Pre sales



Poland, Romania Hungary, Spain

CBN After Service

Refurbishment and Board level repair

Istanbul, Turkey

CBN Call Center/TAC

Hot line Service, Region tech-Support Customer feedback collecting



Amsterdam, Netherlands

CBN Multi-function

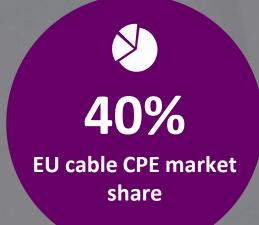
Hub

Warehouse, Logistics, Configuration, Re-work

CBN in Numbers

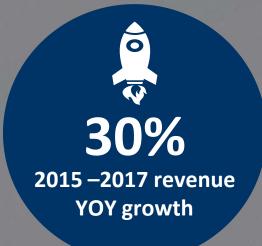














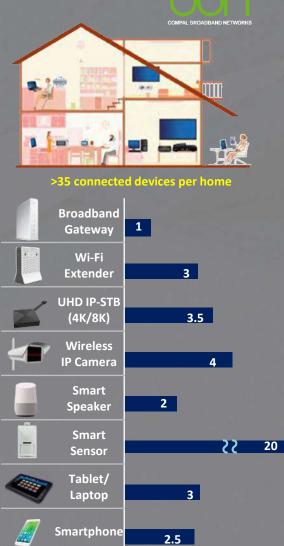


MSO'S Smart Home Ecosystem



Smart Home Domains:

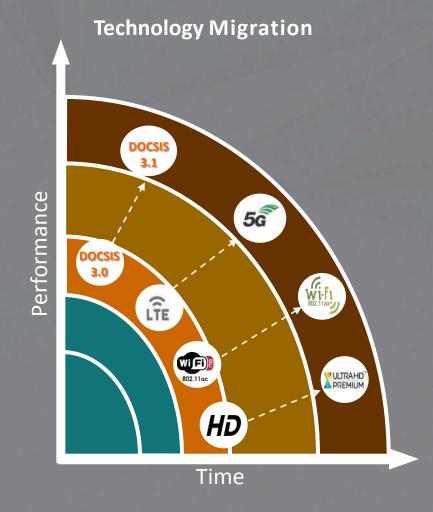
- High Speed Broadband Networking: Smart Cable Gateway, RGW, 5G Gateway, PON
- Home Networking: Wi-Fi Extender
- Media Sharing: UHD IP-STB (4K/8K) with OTT support
- Home Automation & Security: smart speaker, smart home sensors, IP-Cam



CPE MARKET TRENDS



- Market driven by technology migration period
 - Global operators increase investment in broadband & video
 - Demand for gigabit-capable broadband services accelerating
 - Wi-Fi refresh from 802.11ac to 802.11ax
 - UHD IP-STB -shift underway incorporating greater OTT options



WW Cable CPE Market Overview



WW Cable CPE





DOCSIS CPE market steady growth (CY16: \$3.0B CY19(F): \$3.9B) CBN Products shipping to 25 countries, WW Cable CPE market share 10%

Technologies Evolution







Source: HIS, SNL Kagan, F&S, ABI, Ovum, and TBR

4K IP-STB



Source: OVUM, 2017

802.11ax Wi-Fi



Source: Source: Strategy Analytics, Wi-Fi Alliance, ABI Research, 2018



Technology upgrades drive the market growth



Operation Evolution



Leading the Evolution







2009 – 2015 EMS/OEM/ODM

Designs manufactures product

2015 – 2018 CBN Branding Smart Cable Gateway

Footprint 25 countries

Transform to Branding Company Successfully

- Start from smart cable gateway to diversify into smart devices
- Europe market leading position (>40% market share)
- WW No.1 MSO award of Best Product & Service Quality

2018 --NEXT Generation

Gigabit Broadband
Smart home

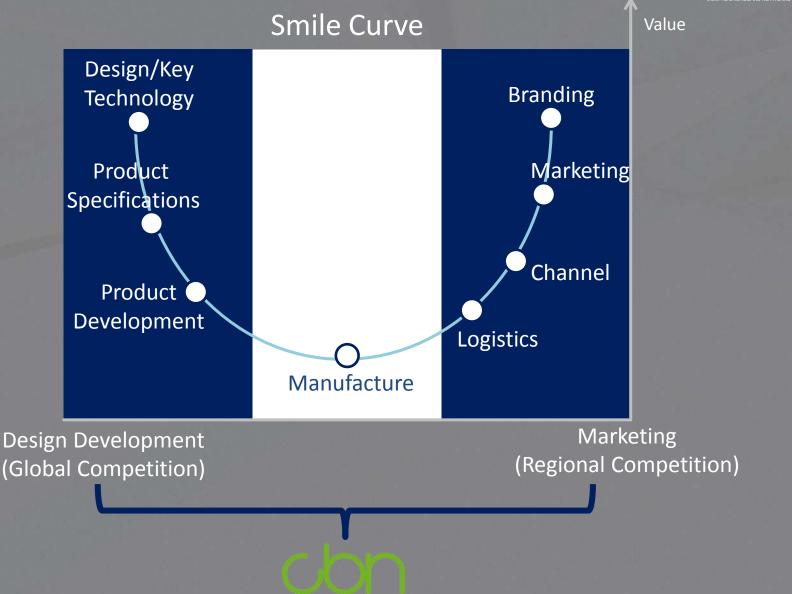
2018 - beyond :

- Continue market expanding
- Focus on Gigabit Broadband & Smart Home markets



Operation Focus and Value





Competitive Advantage – Business Model

COMPAL BROADBAND NETWORKS

Traditional EMS/ODM/OEM Model

EMS/ODM/OEM

Partial H/W design & MFG

Product specification Product fulfillment

Brands
S/W & H/W Design & Marketing

Spec requirements Product fulfillment

CBN "Go Direct" Model



Spec requirements Produ

Product fulfillment





























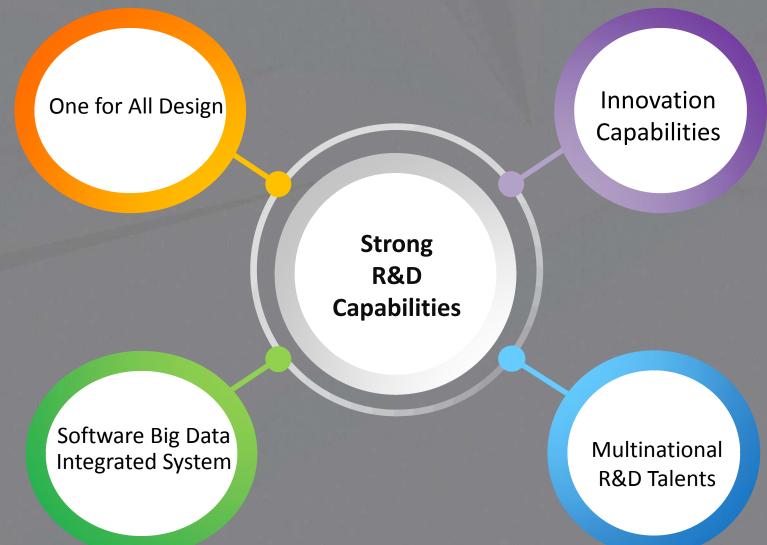




- Direct support and total solution
- Eliminating the inefficiencies & costs of traditional EMS/ODM/OEM models

Competitive Advantage – R&D Capabilities

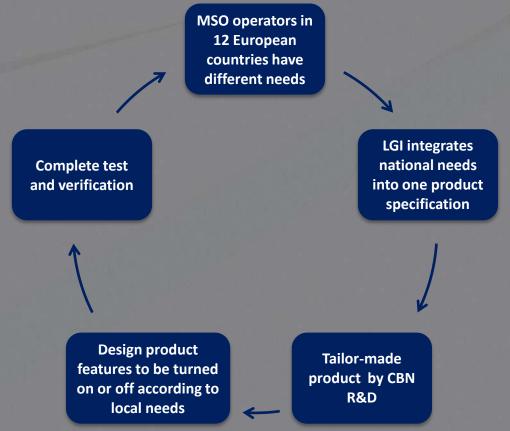




Competitive Advantage – One for All Design



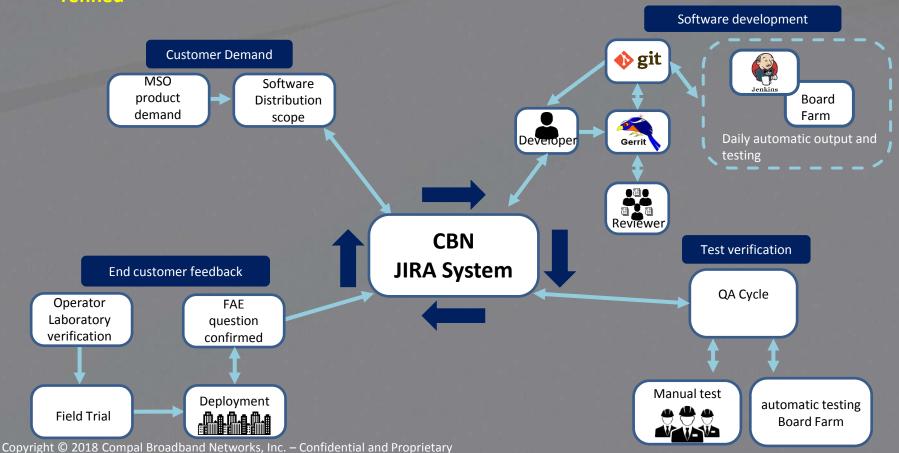
- Launched the first and only Smart Cable Gateway on the market that meets the needs of 12 European countries
- One Smart Cable Gateway can be sold to 12 countries, providing MSO economies of scale and significantly reducing MSO operating costs
- Tailor-made product service to deepen the customer's adhesion to CBN and establish the entry barrier



Competitive Advantage – Software Big Data Integrated System



- Integrating JIRA, Git, Gerrit, Jenkins, Board Farm and other tools and Agile development methods,
 CBN has established a smooth software design and platform to quickly develop, verify and
 distribute software according to customer needs
- Through the collection of questions from millions of user-side product feedback, a complete and valuable big data database was built on the JIRA system, and the more robust products were refined



Competitive Advantage – Multinational R&D Talents





- Architecture design
- Test cases development and product integration automation test programs

Competitive Advantage – Innovation Capabilities



Unique "Zero-Touch" feature: multiple Wi-Fi access points to easy installation

200⁺ patents approved or in process Engineered 66 patents

Leading the industry's smallest / fastest Smart Cable Gateway

Innovation Capabilities

Rich Wi-Fi community features to enable customers' hotspot services

Supports Channel
Steering and optimizes
Wi-Fi usage channels
with cloud computing

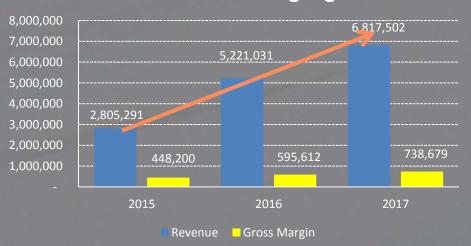
Through the Airtime Management feature, Optimize Wi-Fi video streaming

Financial Results



NT\$ Thousands

Revenue & Gross margin growth



Net Profit growth



30% YOY revenue growth rate in 2015 — 2017

EPS & Dividend



Year	Capital (NT\$ K)	Dividend policy(NT\$)				
		EPS	Cash Dividend	Stock Dividend	Total Dividend	
2014	250,796	10.06	3	3	6	
2015	330,033	3.18	2	0	2	
2016	532,525	4.01(Note)	0.5	1	1.5	
2017	603,513	3.03	1.8	0	1.8	
2018 1H	604,897	1.80	_	_	_	

Note: CBN processed a capital increased by cash of 20,000 shares at the end of December 2016, and basic earnings per share was NT\$ 4.01; if the capital increased by cash to be at the beginning of 2016, the earnings per share will be NT\$ 2.52



Strategy for Growth





Continue the Smart Gateway momentum

- Deepening the leading position in the EU market
- Accelerate the expansion into the Americas and other markets
- Enhance technical capabilities and value-added services to solid CBN's values in the customer ecosystem



Product portfolio expansion to grow the addressable markets

- 802.11ax Wi-Fi Extender
- UHD IP STB (4K/8K)
- Smart Home Device
- 5G Gateway



Strengthen competitive advantage through vertical integration

- Cloud platform
- Smart Home Ecosystem Solution

2018 – 2020 Product Portfolio



5G Gateway

Smart CPE Devices

Smart Cable Gateway



Wi-Fi Extender



UHD IP-STB (4K/8K)



Smart Home Device



CPE Devices

Technology

Solutions

DOCSIS 3.0

FDX DOCSIS 3.1

PacketCable 2.0









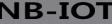








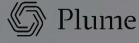


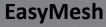




Software















Summary





Deeply entrenched the leading position in the EU cable CPE market



Significant growth opportunity with increasingly diversified customers



Well positioned to benefit from the technology update cycle



Expanded addressable market with product portfolio expansions



Growing profitability with stable dividend policy to shareholders



Q&A





THANK YOU