昇達科技

Universal Microwave Technology, Inc.

Taipei Exchange: 3491

Safe Harbor Notice

- ◆ UMT's statements of its current expectations are forward-looking statements subject to significant risks and uncertainties and actual results may differ materially from those contained in the forward-looking statements.
- **◆** Except as required by law, we undertake no obligation to update any forward-looking statement, whether as a result of new information, future events, or otherwise.

Contents

- **♦** Company Overview
- Market Analysis
- Product Categories
- **♦** Financial Figures
- Vision & Plan
- ♦ Q & A

Company Overview

- **◆ Founded: September 1999**
- **◆** Capital: NT\$ 516M (~ US\$ 17M)
- **◆ Industry: Wireless / Telecom**
- ◆ Location: Keelung, Taiwan & Kunshan, China
- ◆ Product: Microwave/mmWave Components (62.8%)
 RF Antennas (27.6%)
 Trunk Radio (9.6%)

Company Structure



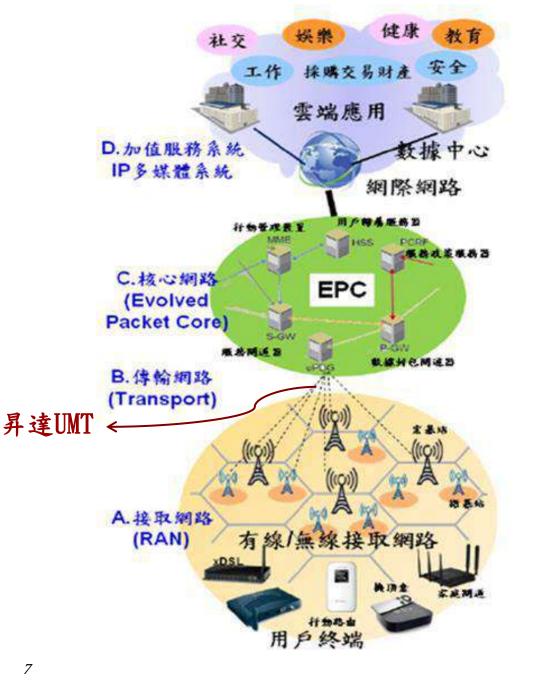
Microwave/mmWave Components

53.5% 100%

RTI 芮特-KY 6514 RF Antennas ADI利滙

Trunk Radio System

Market Analysis

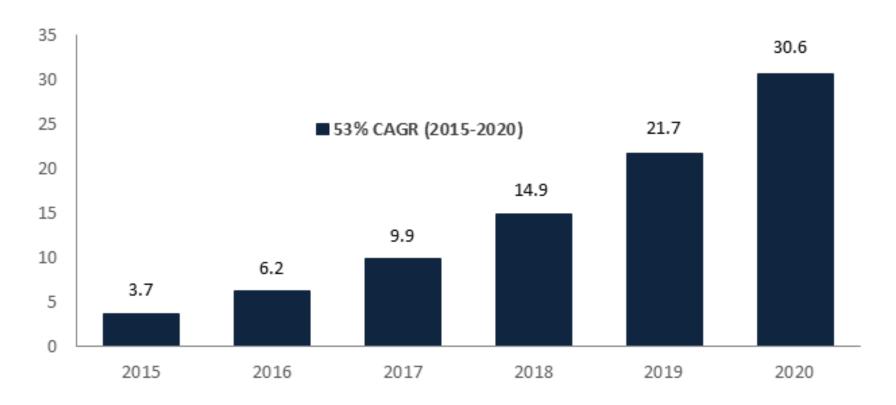


雲端產業結構圖



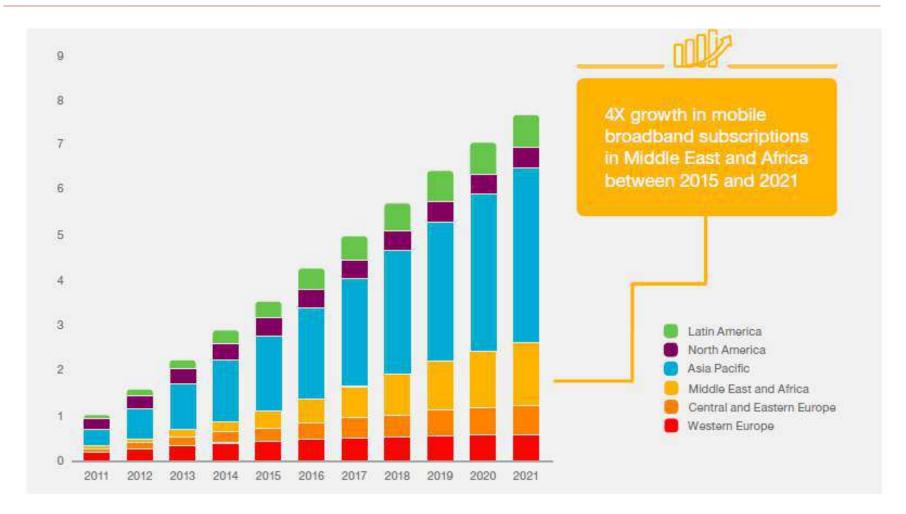
Mobile Data Traffic

Exabytes per month



SOURCE: CISCO VISUAL NETWORK INDEX

Mobile Subscriber (in Billion)



SOURCE: ERICSSON MOBILITY REPORT, JUNE 2016

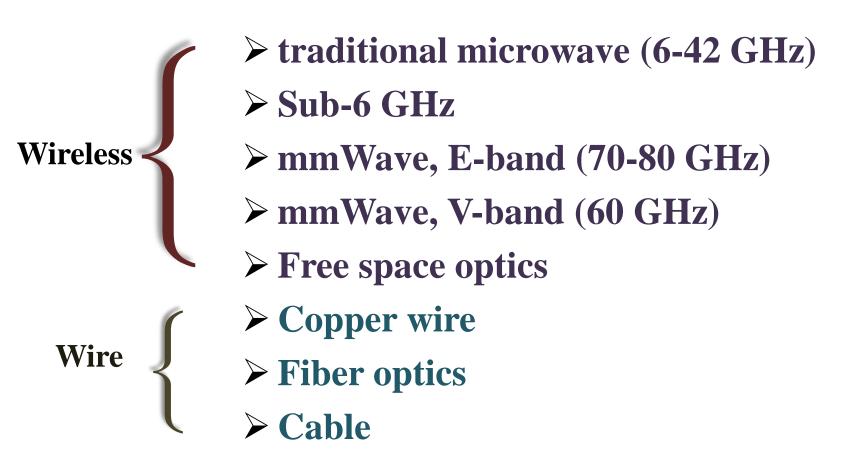
Transport (傳輸網路)



(Evolved Packet Core)

MME (Mobility Management Entity) HSS (Home Subscriber Server) PCRF (Policy & Charging Rule

Mobile Backhaul: Solutions



Advantages of Microwave/mmWave

- 1. Microwave/mmWave is the dominant backhaul technology.
- 2. Quick deployment, low TCO (total cost of ownership).
- 3. mmWave can support "fiber-like" capacity (>10 Gbps).
- 4. Fiber is expected to continue, but at a slower pace.
- > 65% of all the cell sites will be connected by Microwave.
- 6. Microwave/mmWave is well prepared for 5G.

Source: Ericsson Microwave Outlook, Oct. 2016

Wireless/Mobile Backhaul Markets

Application: Public Safety Oil & Gas

Wireless ISP's

Market:

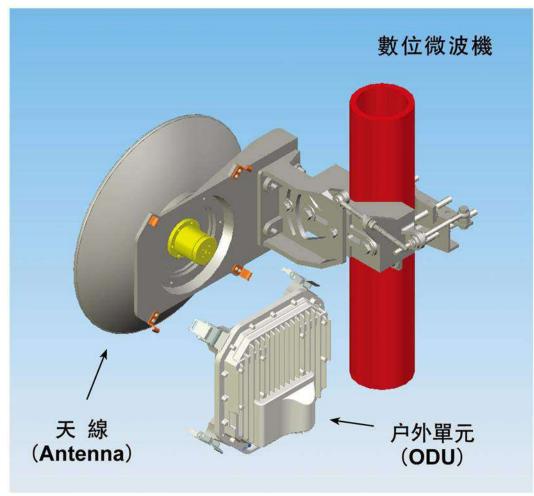
The global mobile and wireless backhaul market is estimated to reach \$42.24 billion by 2022 and is expected to grow at CAGR of 13.57% during 2016-2022.

Utilities

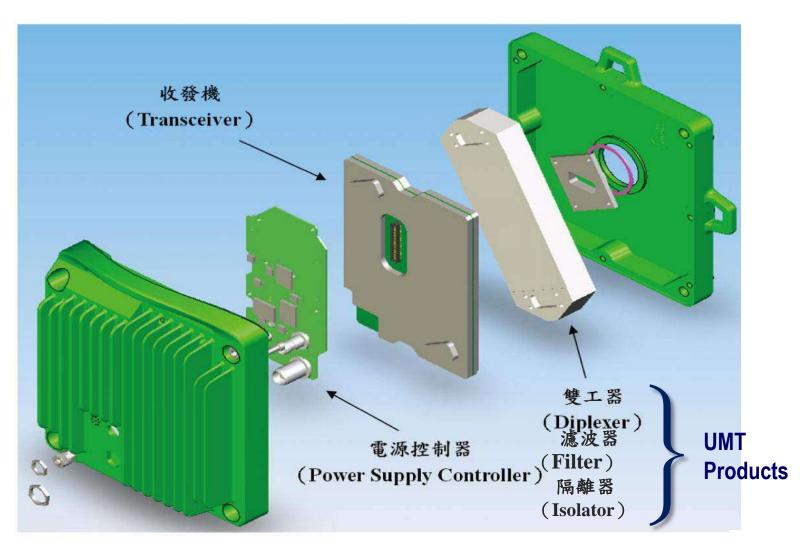
(Research & Markets, 2016)

Microwave/mmWave ODU





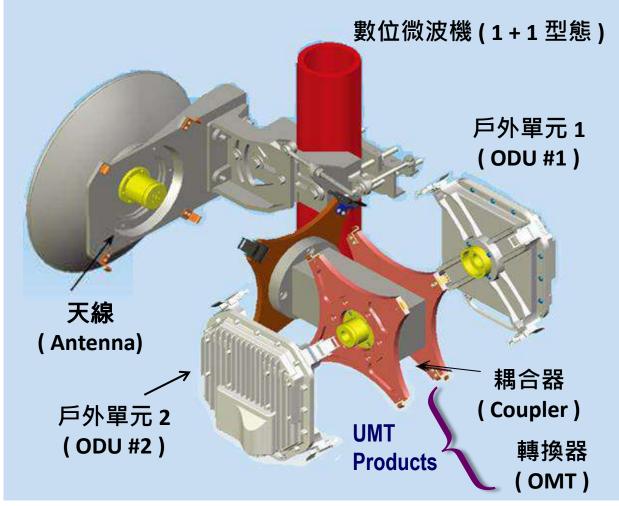
Microwave/mmWave ODU Components



15

Microwave/mmWave ODU, 1+1 Type

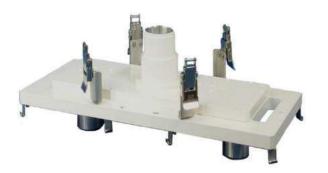




UMT Main Products













Diplexer/Filter (40%)

Isolator/Circulator (20%)

Coupler/OMT (25%)

Installation #1 - Tower/ Rooftop





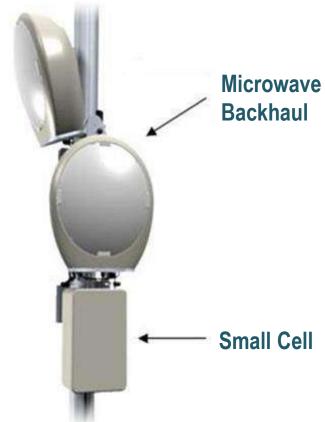
Installation #2 - Light Pole/ Bus Stop





$Installation \ \#3 - {\bf Microwave} + {\bf Small} \ {\bf Cell}$

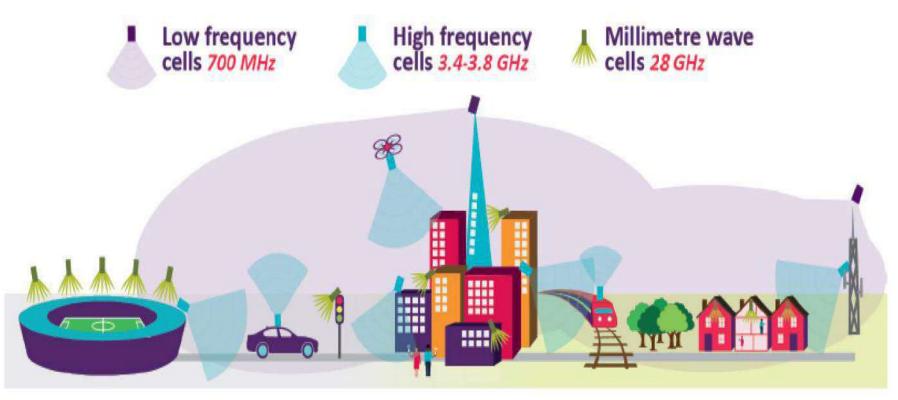




UMT Core Competencies

- 1. High design entry barrier: electrical & mechanical design.
- 2. Manufacturing know-how: stability & yield.
- 3. Long-term relationship with tier 1 customers.
- 4. 5G pre-design with customers.

5G Application



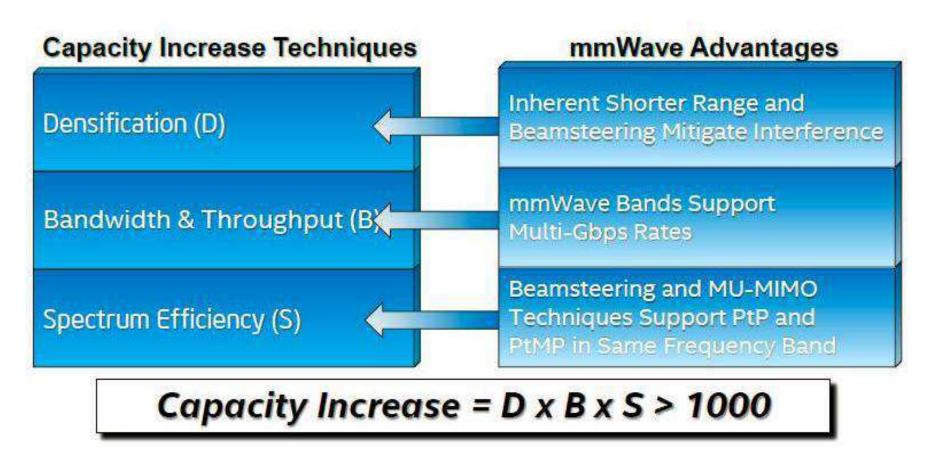
Large scale events Thousands of users Vehicle communications Transport infrastructure Environmental monitoring & Smart cities

Transport & infrastructure

Improved residential connections,
Smart energy

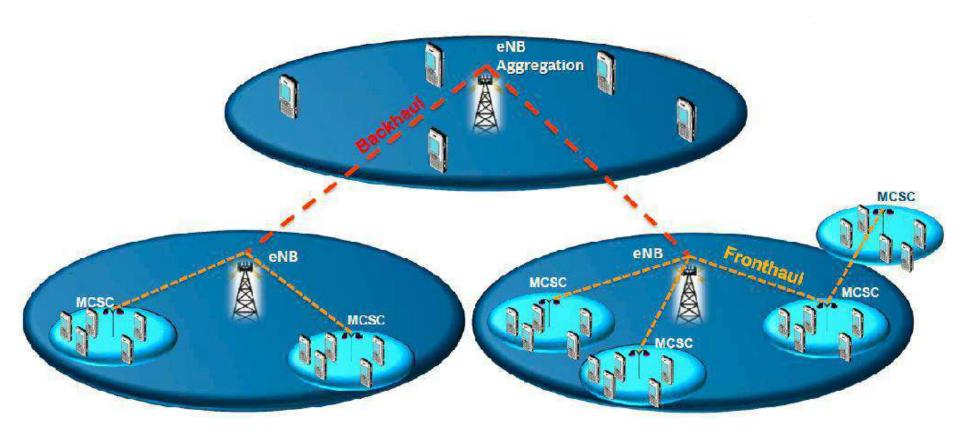
5G Capacity Increase & mmWave Advantages

(Shannon-Hartley Theorem)



23

HetNet with mmWave Capable Small Cells (MCSC)



5G Products: mmWave antenna & multiplexer







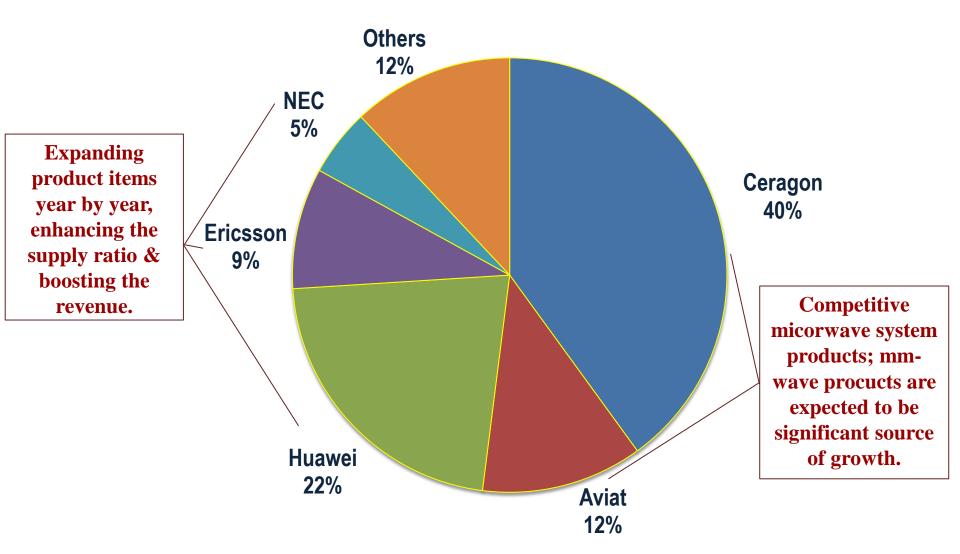
28 GHz Antenna

28 GHz 16-Channel Filters

38 GHz Antenna

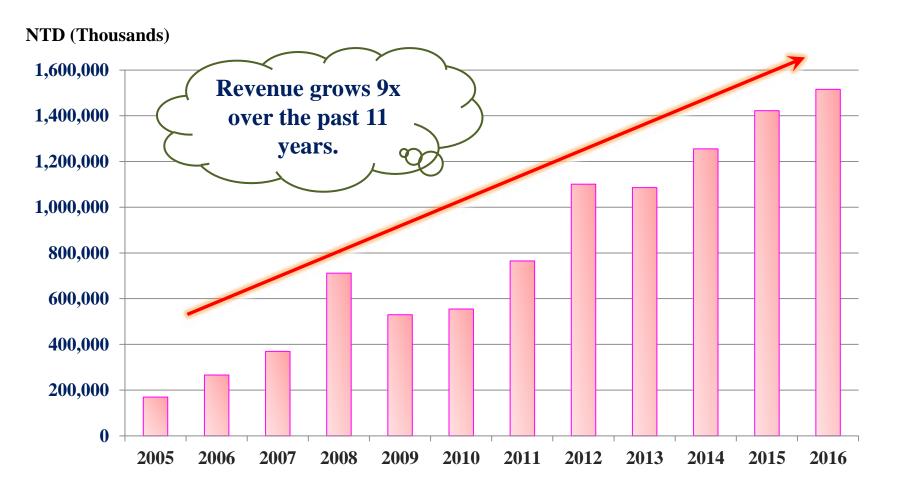
Financial Figures

Revenue Ratio by Clients (2016)



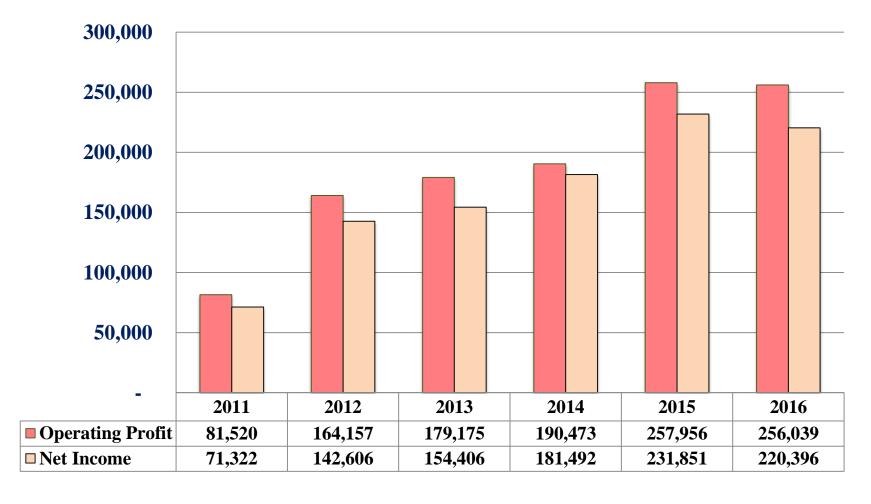
27

Revenues

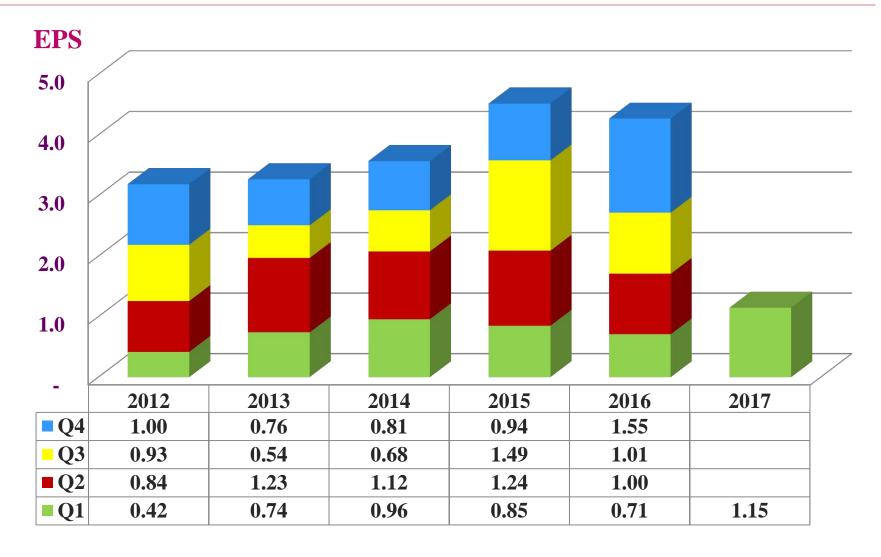


Operating Performance

NTD (Thousands)



Quarterly EPS



Condensed Income Statements

| NTD (thousands) | 2017Q1 (Unaudited) | YoY | 2016Q1 | 2016Q2 | 2016Q3 | 2016Q4 |
|--------------------------------------|-----------------------|--------------|---------|---------|---------|---------|
| Reveune | 396,694 | † 13% | 352,401 | 385,651 | 368,917 | 409,383 |
| Gross Profit | 166,766 | † 41% | 118,581 | 124,667 | 138,039 | 166,275 |
| GP Ratio | 42.0% | | 33.6% | 32.3% | 37.4% | 40.6% |
| Operating Expenses | 71,871 | ↑ 8% | 66,390 | 72,791 | 67,712 | 84,630 |
| Operating Income | 94,895 | † 82% | 52,191 | 51,876 | 70,327 | 81,645 |
| Non-operating Rev. (Exp.) | (16,009) | | (8,400) | 13,485 | (7,848) | 24,122 |
| Income Before Tax | 78,886 | ↑80% | 43,791 | 65,361 | 62,479 | 105,767 |
| Net Income (Minority included) | 61,523 | ↑ 69% | 36,342 | 55,517 | 56,030 | 88,892 |

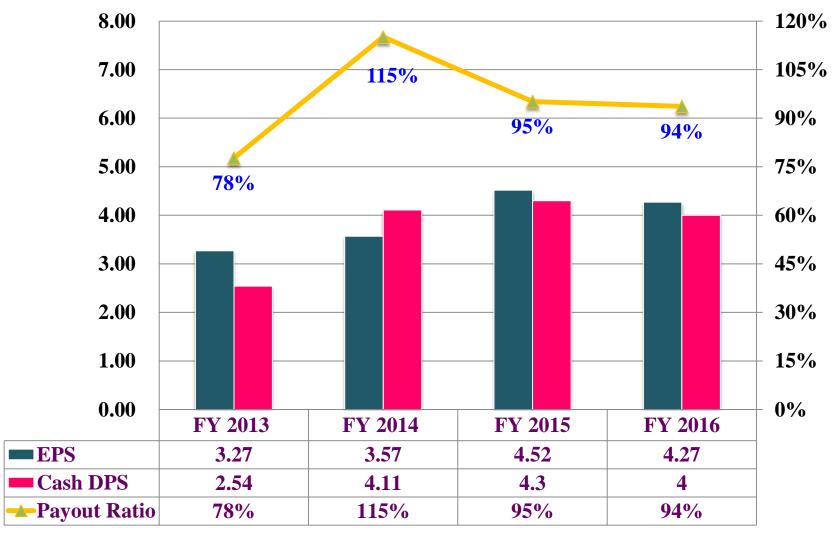
<u>UMT</u>

Overview: 2017 Q1 Operating Results

- ✓ Quarterly revenue hits a new high, March of Q1 achieves a monthly record high in history.
- ✓ 42% Gross profit ratio, continuous new high and exceeds Q4
 2016 further.
- ✓ Significantly increase in YoY figures of Operating income, Income before Tax and Net income; growth by 82%, 80%, 69%, respectively.
- ✓ Operating income in Q1(off peak) exceeds Q4 (peak season) 2016 and grows by 16%.
- ✓ Operating income have grown by 36%, 16%, 16% in three latest quarters.

32

EPS/Dividend Policy



33

Vision & Plan

Vision & Plan

- **◆** Customer/Market demands in 4G/4.5G deployment continue
- **◆** Core competency enables successful business development and acquisition opportunities
- **◆** Leading technology in 5G/mmWave components

35

Q & A



穩健踏實 專注聚焦 精益求精

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